Canon

Cassette Feeding Unit-AE1

Service Manual

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Safety Precautions

- Notes Before it Works Serving

Notes Before it Works Serving

Caution

At servicing, be sure to turn off the power source according to the specified steps and disconnect the power plug.

Caution

Do not turn off the power switch (of the host machine) when downloading is under way.

Turning off the main power switch while downloading is under way can disable the machine.

1

Specifications

- Specifications
- Names of Parts

Specification

Specifications

Specifications

Item	Specification	Remarks
Paper storage method	Front loading method	
Pickup method	Separation retard method	
Paper stack capacity	550sheets (80g/m^2 paper), 680sheets (64g/m^2 paper)	
Cassette	2	
Paper feed reference	Center reference	
Paper Type	64g/m^2 ~90g/m^2	
Paper size	Standard (universal) A3,B4,A4,B5, LDR,LGL,LTR,A4R,B5R,LTRR, A5R,EX EC,STMTR,12"x18",8K,16K,16KR	
Paper grammage	64 to 90g/m^2	
Paper size switch	Size auto detection	
Control Panel	None (Use the key on the host machine)	
Display	None (Use the key on the host machine)	
Environmental measure	Heater for paper humidity adjustment	Cassette heater is available as an option
Power supply	No	Option power supply of the host machine
Size	565(W) - 650(D) - 248(H) [mm]	
Weight	27.5kg	
Max. power consumption	100W	

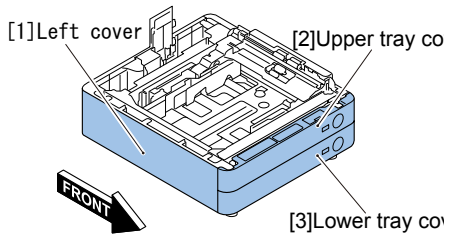
T-1-1

Names of Parts

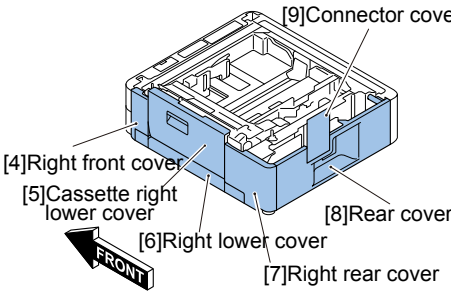
External View

External Cover

[1] Left cover
[2] Upper tray cover
[3] Lower tray cover
[4] Right front cover
[5] Pedestal right cover
[6] Right lower cover
[7] Right rear cover
[8] Rear cover
[9] Connector cover

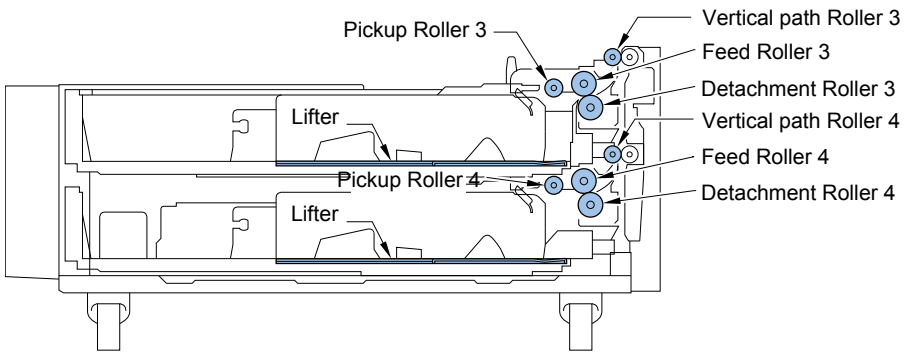


F-1-1



F-1-2

Cross-Section View



F-1-3

2

Installation

- How to Check this Installation Procedure
- Checking the Contents
- Installation Procedure
- Adjustment

How to Check this Installation Procedure

When using the parts included in the package

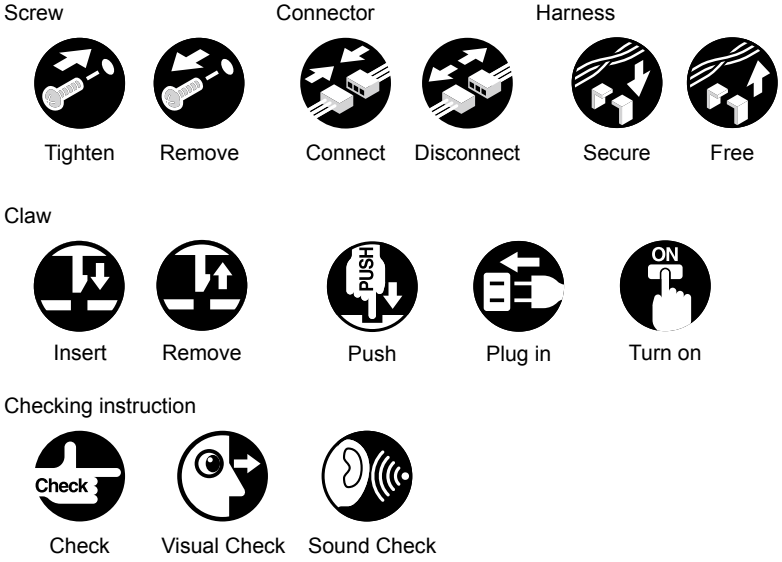
A symbol is described on the illustration in the case of using the parts included in the package of this product.

Packaged Item

F-2-1

Symbols in the illustration

The frequently-performed operations are described with symbols in this procedure.



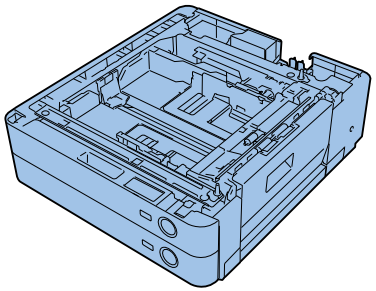
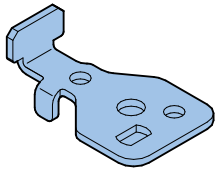
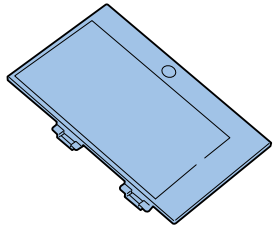
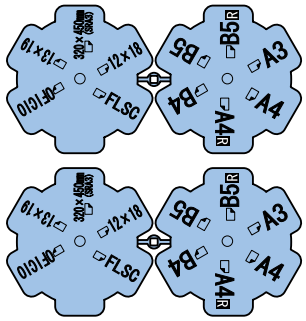
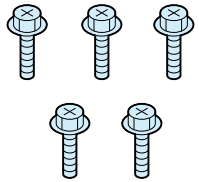
F-2-2

Points to Note at Installation

- In the case of connecting to the 250 Sheets Cassette Model, the Cassette Spacer-A1 is required.
- To enable function of the heater, "Cst Heater Kit-J1" and "Cassette Heater Unit-37" must be installed.

Checking the Contents

CST. Feeding Unit-AE1

☐ [1] Cassette Feeding Unit x 1 	☐ [2] Positioning Pin x 2	☐ [3] Connecting Fixture x 1 	☐ [4] Connector Cover x 1 
☐ [5] Size Plate x 2 	☐ [6] Screw (RS Tightening; M3X8.5) x 5 		

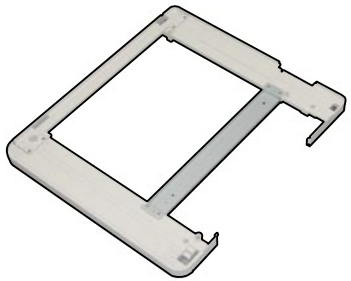
F-2-3

< CD/Guides >

- FCC/IC Sheet

Contents of Cassette Spacer-A1

MEMO:
Use the Cassette Spacer-A1 when connecting to the 250 Sheets Cassette Model.

☐ [1] Cassette Spacer x 1	☐ [2] Positioning Pin (Long) x 2	☐ [3] Connecting Fixture x 1	☐ * [4] Connector Cover x 1
			

*; Not use with this procedure.

F-2-4

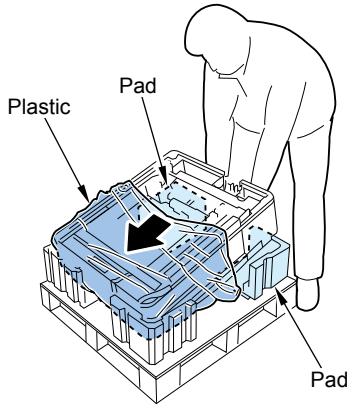
Turning OFF the Host Machine

Turn OFF the main power switch on the host machine, and then remove the power plug from the outlet.

Unpacking

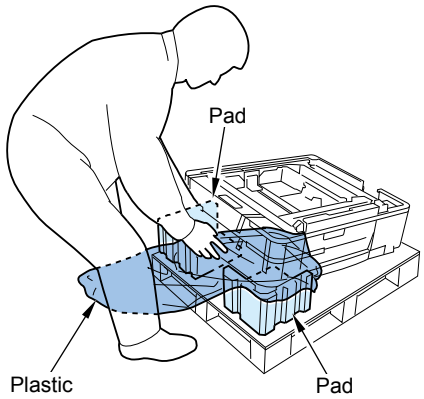
☐ 1) Remove the container box.

☐ 2) Open the plastics, and remove the 2 pads by lifting the rear side of the equipment. Then, move the plastics toward the pads at the front side.



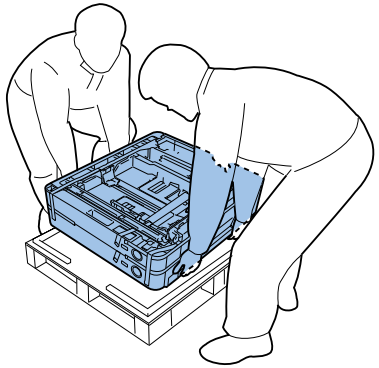
F-2-5

☐ 3) Remove the 2 remaining pads and the plastics by lifting the front side of the equipment.



F-2-6

☐ 4) Lift the equipment and unload it from the pallet.



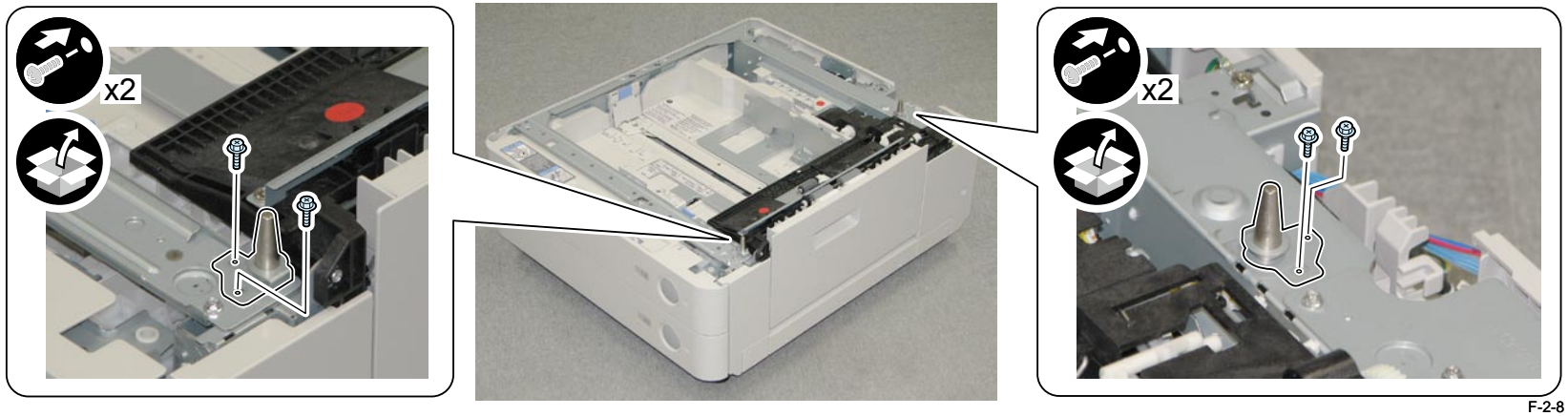
F-2-7

☐ 5) Remove all tapes affixed on the outside of the equipment.
6) Remove the all tapes on the cassette and packing materials.

Installation Procedure

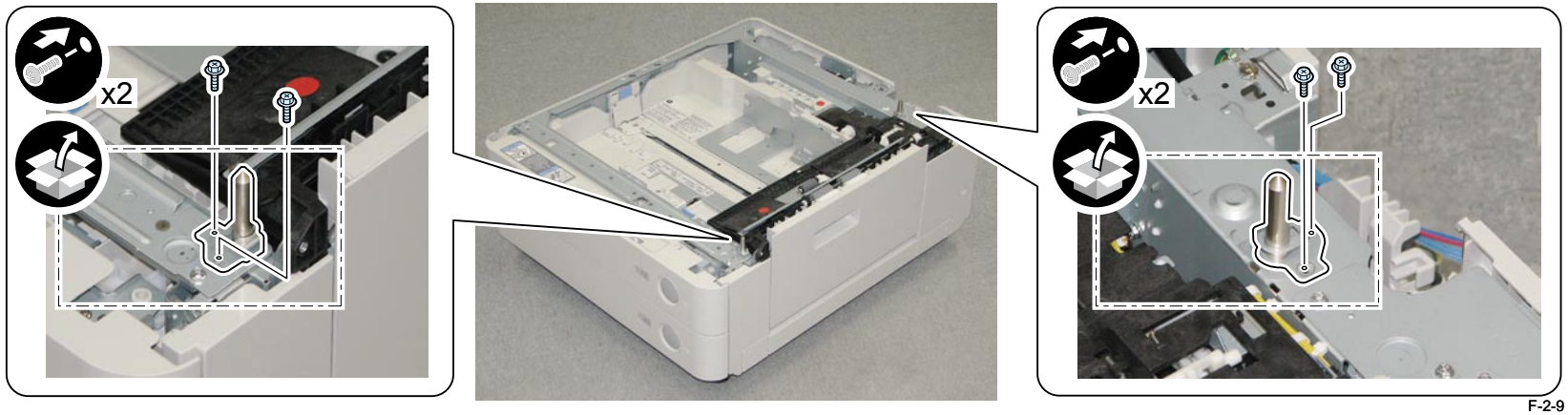
MEMO:
Be sure to execute the following step 1) to 3) only when connecting with the 250-sheet cassette model.

☐
1) When connecting with the 250-sheet cassette model, loosen the 2 Positioning Pins which were installed to the Cassette Feeding Unit. (The removed Positioning Pins are no longer used.)
- 4 Screws (The removed screw will be used in step 2).)



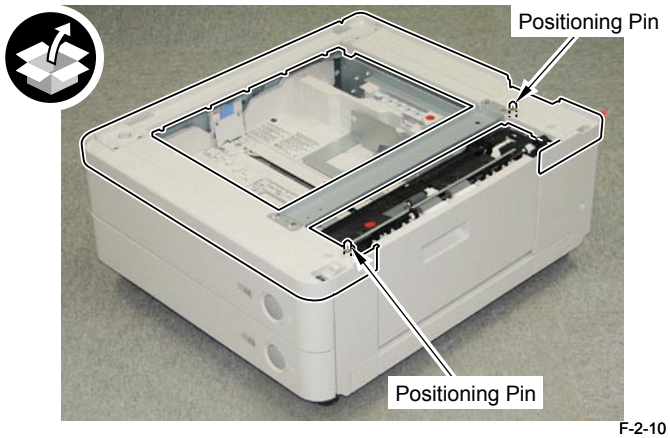
F-2-8

☐
2) Install the 2 Positioning Pins (Long) packaged with Cassette Spacer-A1.
- 4 Screws (Use the screws removed in step 1).)



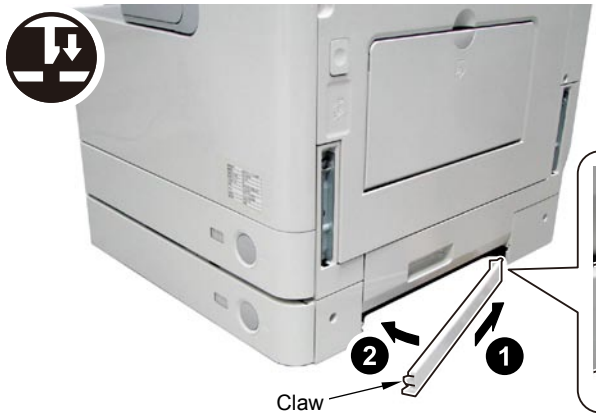
F-2-9

☐
3) When connecting to the 250 Sheets Cassette Model, install the Cassette Spacer included in the Cassette Spacer-A1 by inserting it into the 2 Positioning Pins.



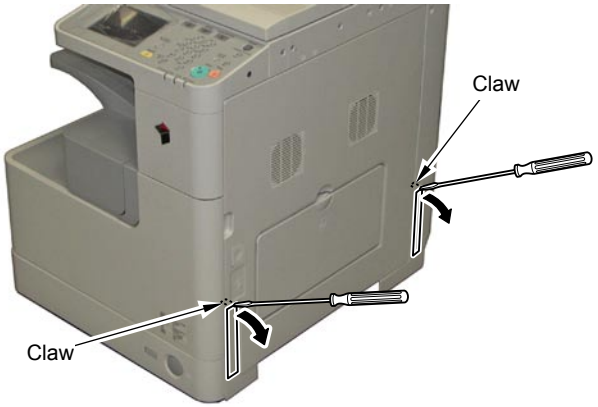
F-2-10

☐
4) In the case that the Cassette Module (1- Cassette Unit) is installed, remove it with a flat-blade screwdriver.



F-2-11

☐
5) In the case that the Grip Covers are installed, release the claws with a flat-blade screwdriver and remove the Grip Covers.

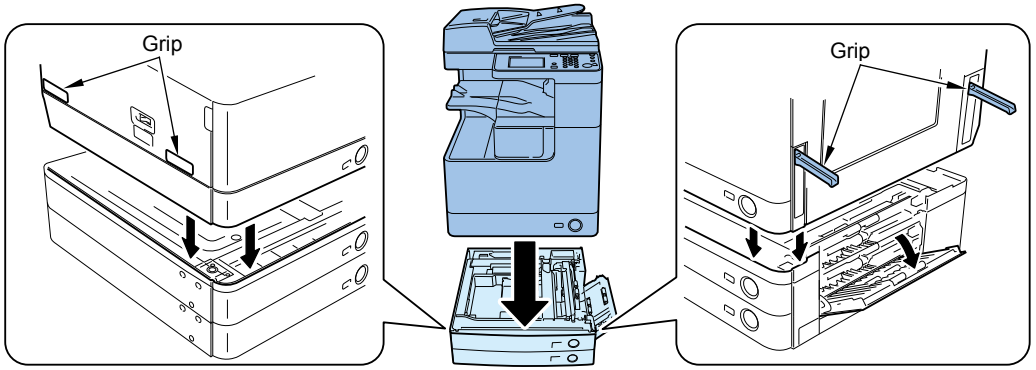


F-2-12

☐
6) Open the Right Lower Cover of the Cassette Feeding Unit.
7) Hold the 4 Grips on the host machine, and mount the host machine while aligning the right and left corners of the front of the host machine and the front of the Cassette Feeding Unit.

CAUTION:

- When mounting the host machine on the equipment, be sure to fit the holes on the bottom of the host machine into the 2 Positioning Pins on the top of the equipment.
- The host machine weighs maximum approx. 50 to 79 kg.
  It is recommended to lift it with 2 people or more. However, if there is a standard to handle a heavy load in each sales company, follow it for operation.
  Also, make sure to lift the machine with keeping it level at operation.

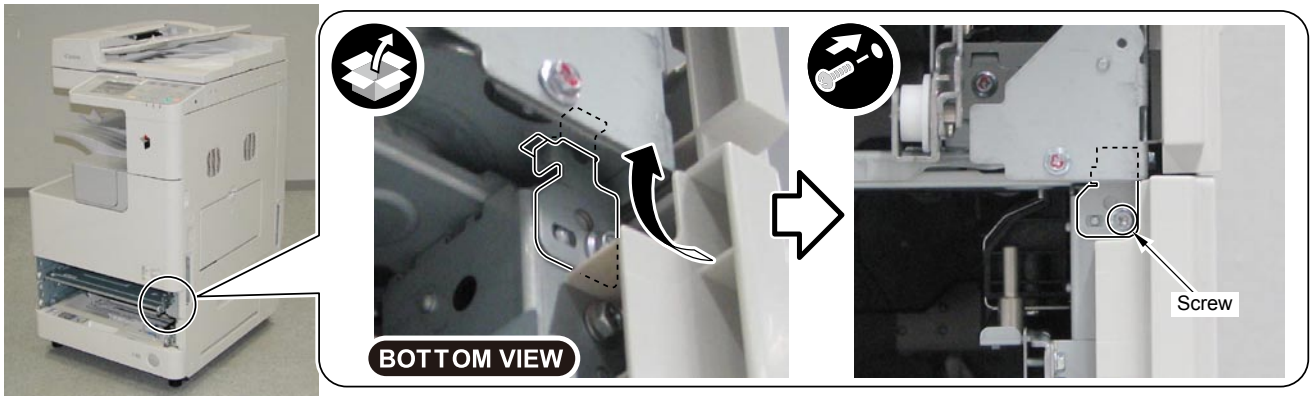


F-2-13

☐
8) Close the Cassette Right Lower Cover.
9) Remove the cassettes to which the Connecting Fixture will be installed in a later step.

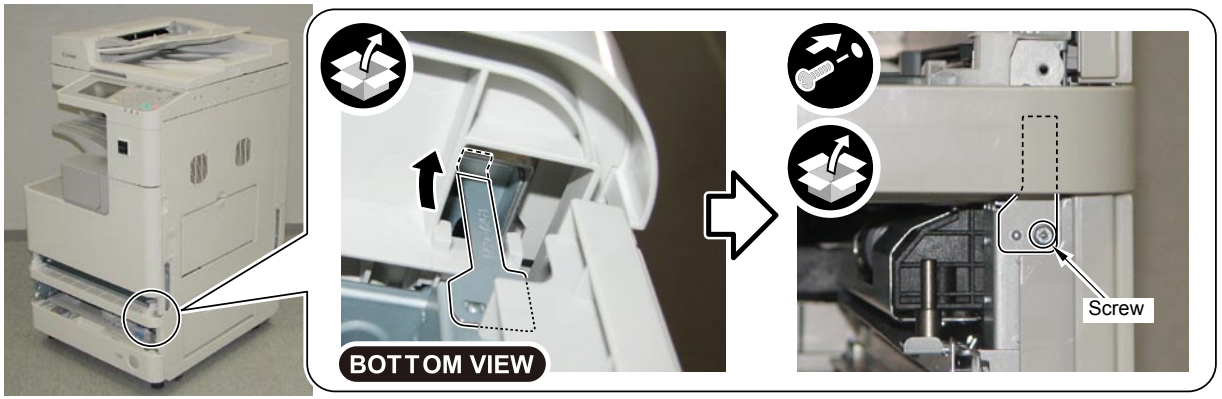
☐
10) Install the Connecting Fixture.
- 1 Screw (RS Tightening; M3 x 8.5)

< When Connecting to 550 Sheets Cassette Model >
- To install the Connecting Fixture, insert it into the hole on the host machine and hook the tab of it to the plate on the host machine.



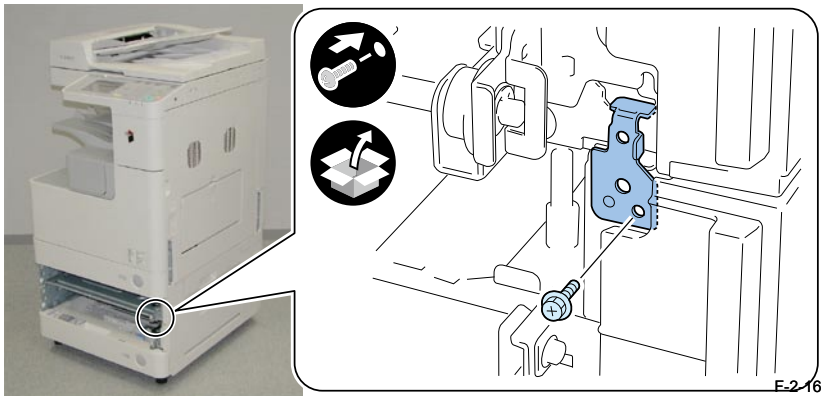
F-2-14

< When Connecting to 250 Sheets Cassette Model >
- To install the Connecting Fixture, insert it included in the Cassette Spacer-A1 into the hole on the host machine, and hook the tab of it to the plate on the host machine.



F-2-15

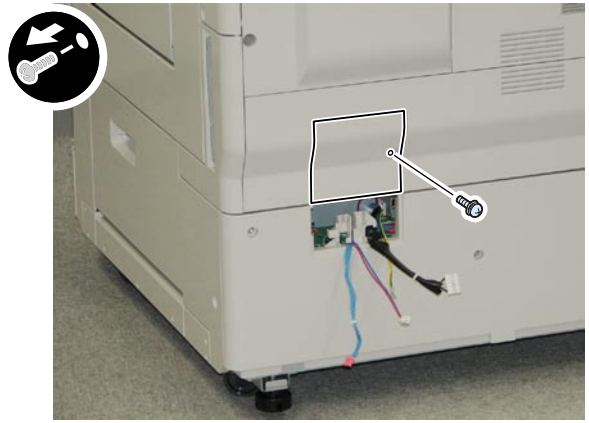
< When Connecting to Cassette Module (1- Cassette Unit) >



F-2-16

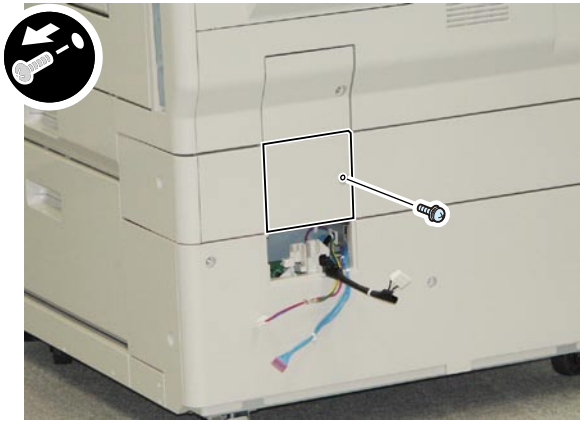
☐
11) Remove the Connector Cover. (The removed cover will not be used.)
- 1 Screw (The removed screw will be used in step 14).)

< In the Case of Host Machine >



F-2-17

< In the Case of Cassette Module (1- Cassette Unit) >



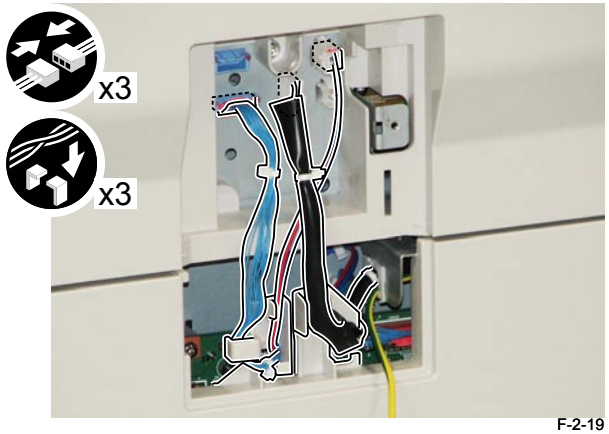
F-2-18

☐
12) Put the 3 cables of the Cassette Feeding Unit through the guide, and connect the 3 connectors to the host machine.

MEMO:
Connect the connector with black color tube to "Cst Heater Kit-J1" (option).

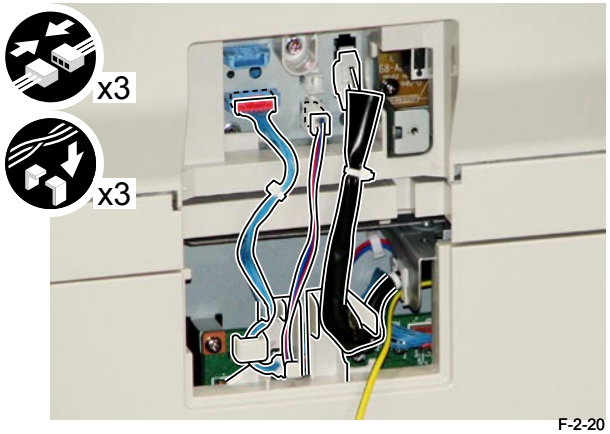
CAUTION:
- When securing the 3 cables in place with the guide, be sure to place one cable to one groove of the guide.
- Be sure to tuck the extra slack of the cable to the host machine side.

< When Connecting to 550 Sheets Cassette Model >



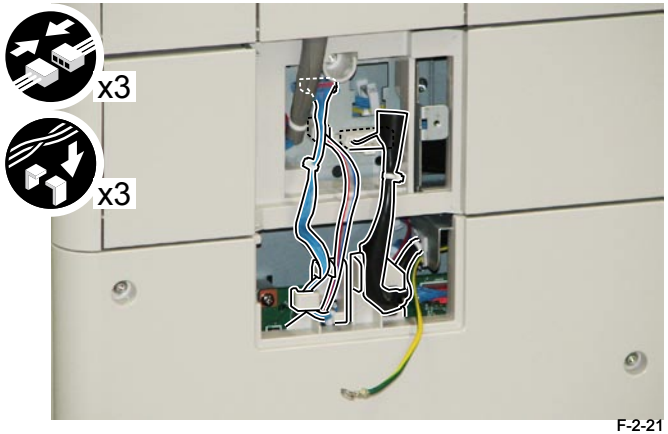
F-2-19

< When Connecting to 250 Sheets Cassette Model >



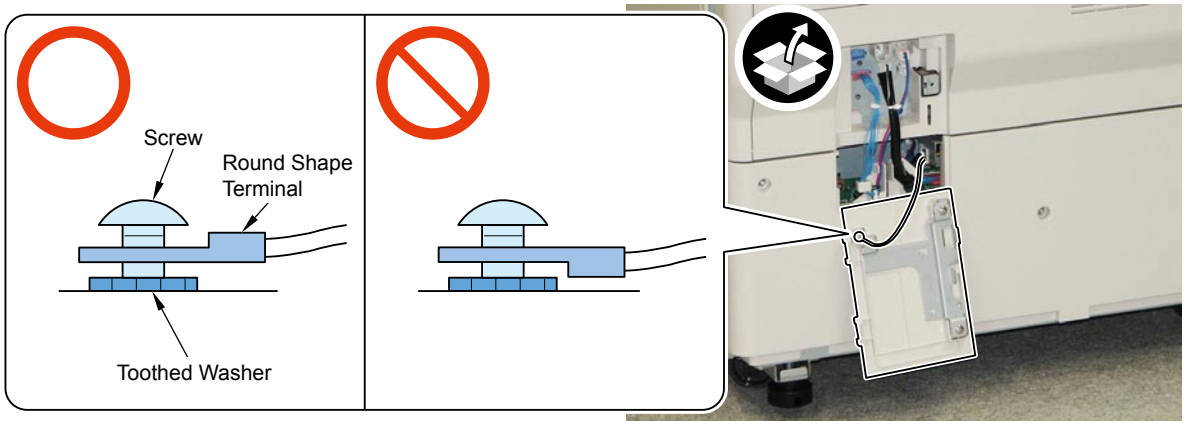
F-2-20

< When Connecting to Cassette Module (1- Cassette Unit) >



F-2-21

☐ 13) Loosen the screw on the Connector Cover included in the package, and install the grounding wire between it and the toothed washer.

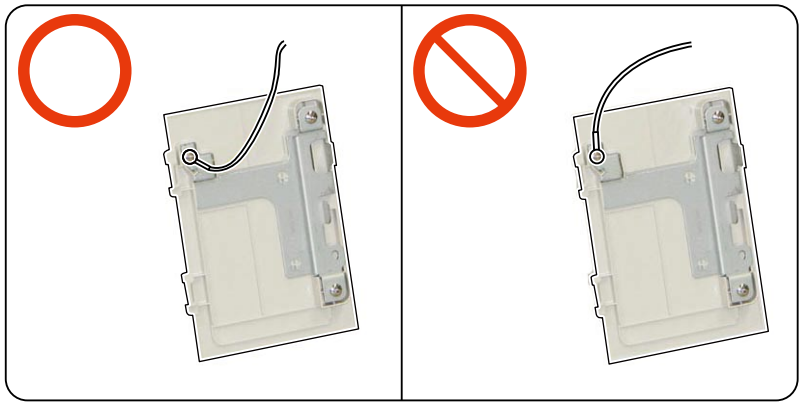


F-2-22

☐

CAUTION:

- Be sure to pay attention to the installation orientation of the grounding wire.
- Install from the direction of the arrow marked on the Plate



F-2-23

☐
14) Install the Connector Cover.
- 1 Screw (Use the screw removed in step 11).)

CAUTION:
Be sure not to trap the cable.

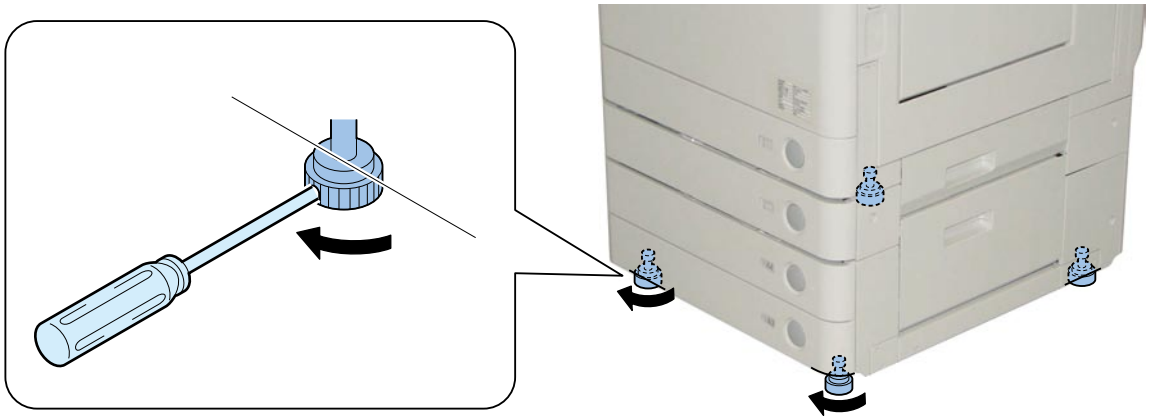
< When Connecting to Host Machine >

F-2-24

< When Connecting to Cassette Module (1- Cassette Unit) >

F-2-25

☐
15) Turn the 4 Adjusters clockwise 4 times, and secure the equipment in place firmly.



F-2-26

☐
16) Install the removed covers.
- Grip Cover
- Right Lower Sub Cover (In the case that the Cassette Module (1- Cassette Unit) is installed.)

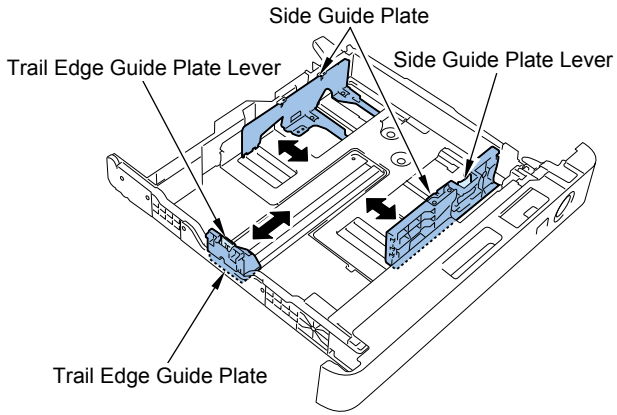
17) Return the cassette of the host machine.
18) Plug the power plug of the host machine to the outlet.
19) Turn ON the main power switch.

Setting the Cassette

☐

1) Hold the Side Guide Plate Lever and set the Side Guide Plate to the specified size.
At this time, set the Side Guide Plate to the click position (the position where you feel a click) by moving the Side Guide Plate while using the size index (label) of the sheet size to be set as a measure.

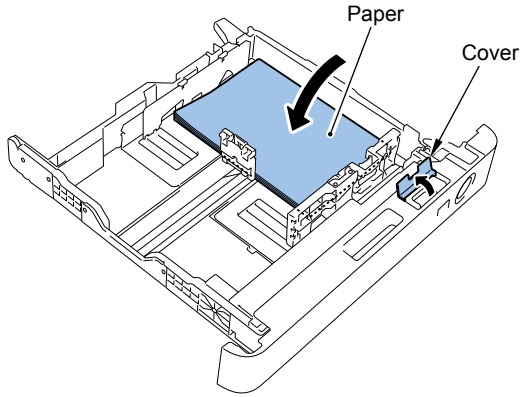
2) Hold the Trailing Edge Guide Plate Lever and set the Trailing Edge Guide Plate to the specified size.
At this time, set the Trailing Edge Guide Plate to the click position (the position where you feel a click) by moving the Trailing Edge Guide Plate while using the size index (label) of the sheet size to be set as a measure.



F-2-27

☐

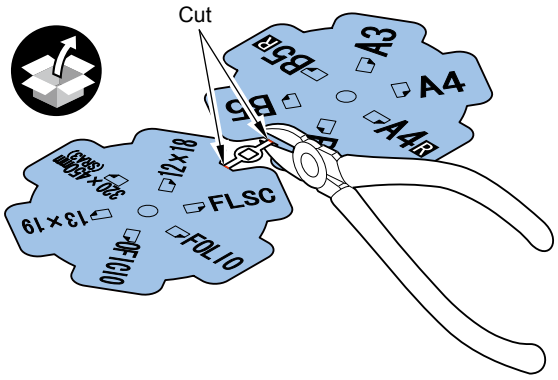
3) Set papers.
4) Open the cover at the Size Plate insertion area.



F-2-28

☐

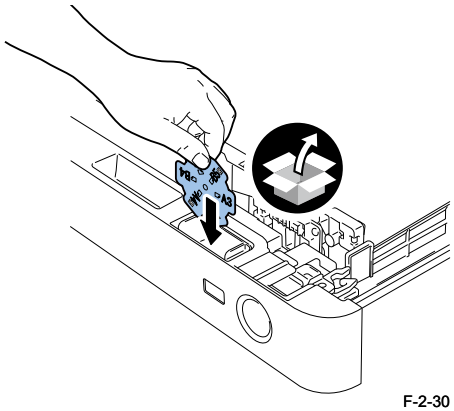
5) Cut the 2 places of the Size Plates with nippers.



F-2-29

☐

6) Insert the Size Plate in accordance with the paper size being set. (Lump the Size Plates not in use together and store them at the rear.)



F-2-30

☐

7) Close the cover at the Size Plate insertion area, and return the cassette to the equipment.

MEMO:
The paper size setting is recognized automatically.

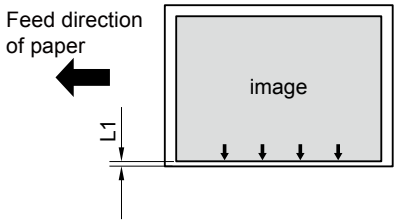
Adjustment

Adjustment of Margin (1st side)

☐

MEMO:
As for the adjustment method, the same procedure is applied to the Cassette 3 and 4.

1) Make a copy from the Cassette 3 and 4, and check that the left edge margin is 2.5+/-1.5mm.

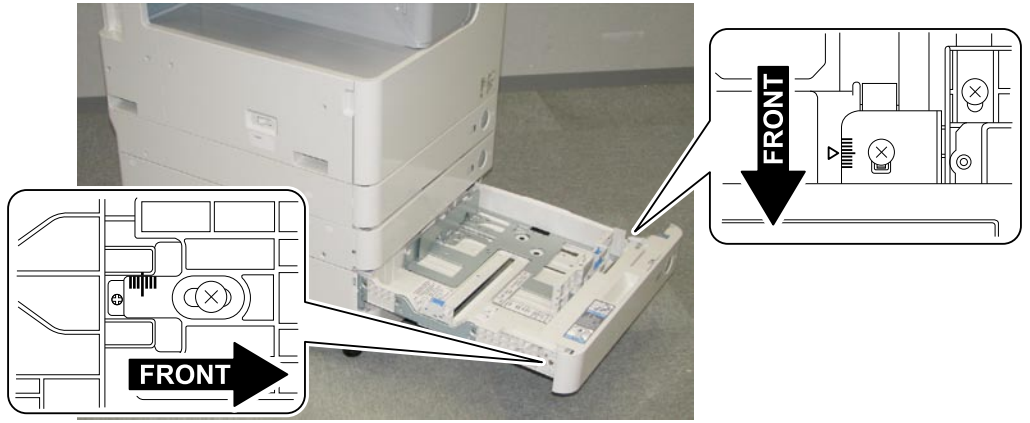


F-2-31

MEMO:
In the case of out of specification, execute step 2) through 8) indicated below.

☐

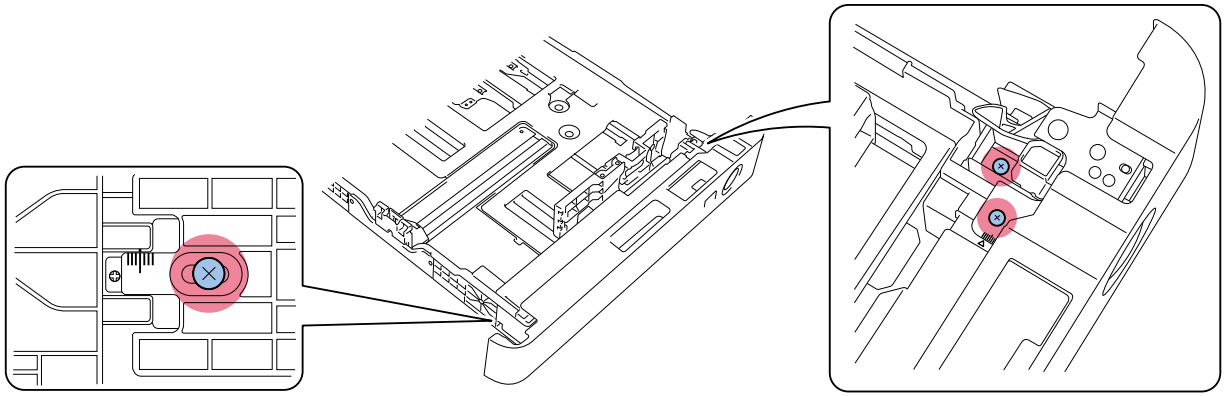
2) Pull out the cassette.
3) Check the 2 scale positions of the Adjustment Plate.



F-2-32

☐

4) Loosen the 3 Fixation Screws.



F-2-33

3

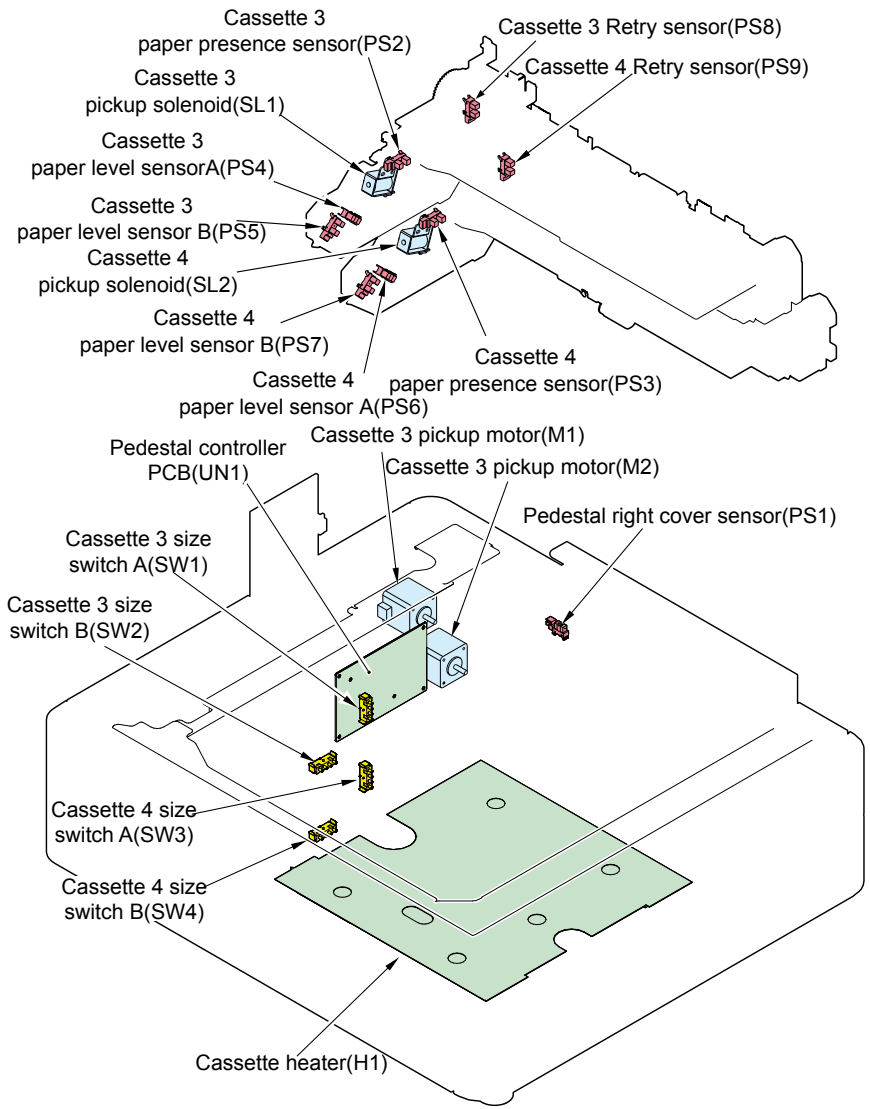
Technology

- Basic Configuration
- Pickup/Feed System
- JAM Detection
- Power supply

Function

Basic Configuration

Sensor / Solenoid

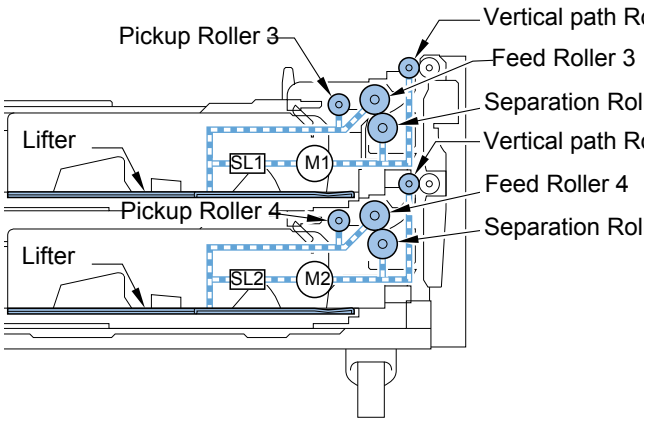


F-3-1

Pickup/Feed System

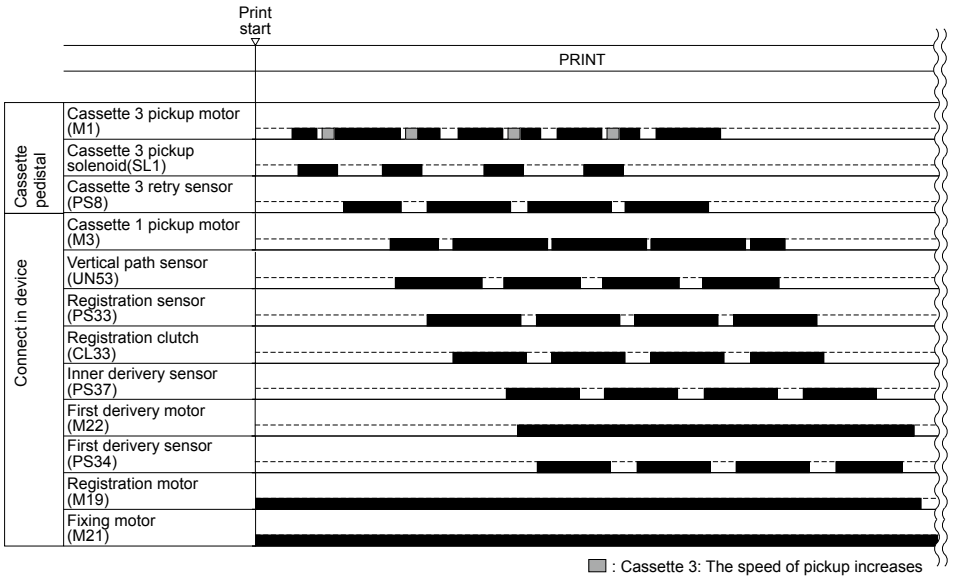
Overview

Papers in the cassette are lifted up with the Lifter Plate.
At pickup, the Pickup Roller picks up a paper by coming down and contact with paper surface.
The Pickup Roller comes down when the Pickup Solenoide turns ON.
A paper picked up by the Pickup Roller is fed to the feed path with the Separation Roller, and then, is fed to the Registration Roller with the Vertical Path Roller.
The Vertical Path Roller, Pickup Roller, Feed Roller and Separation Roller are driven by the Cassette Pickup Motor.

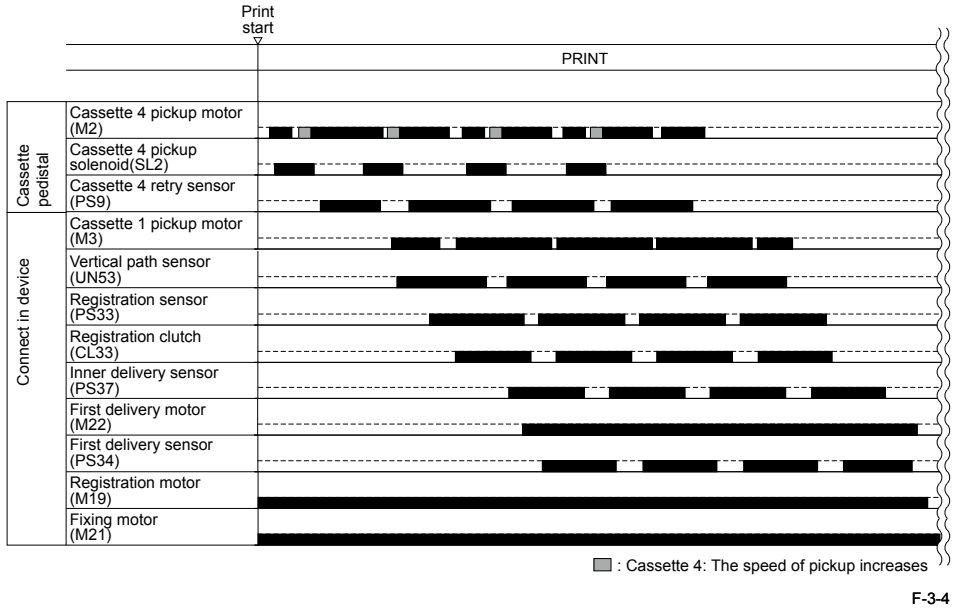


F-3-2

Sequence



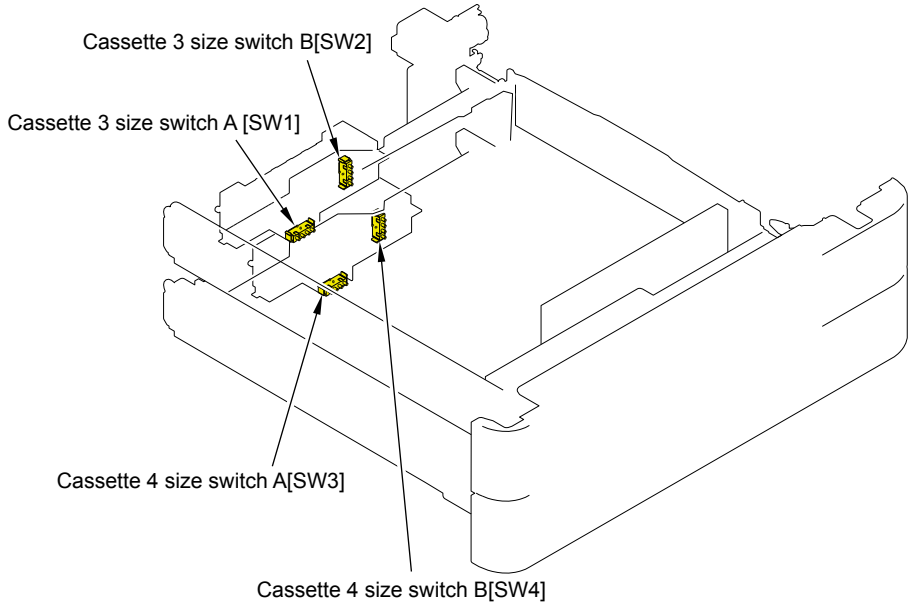
F-3-3



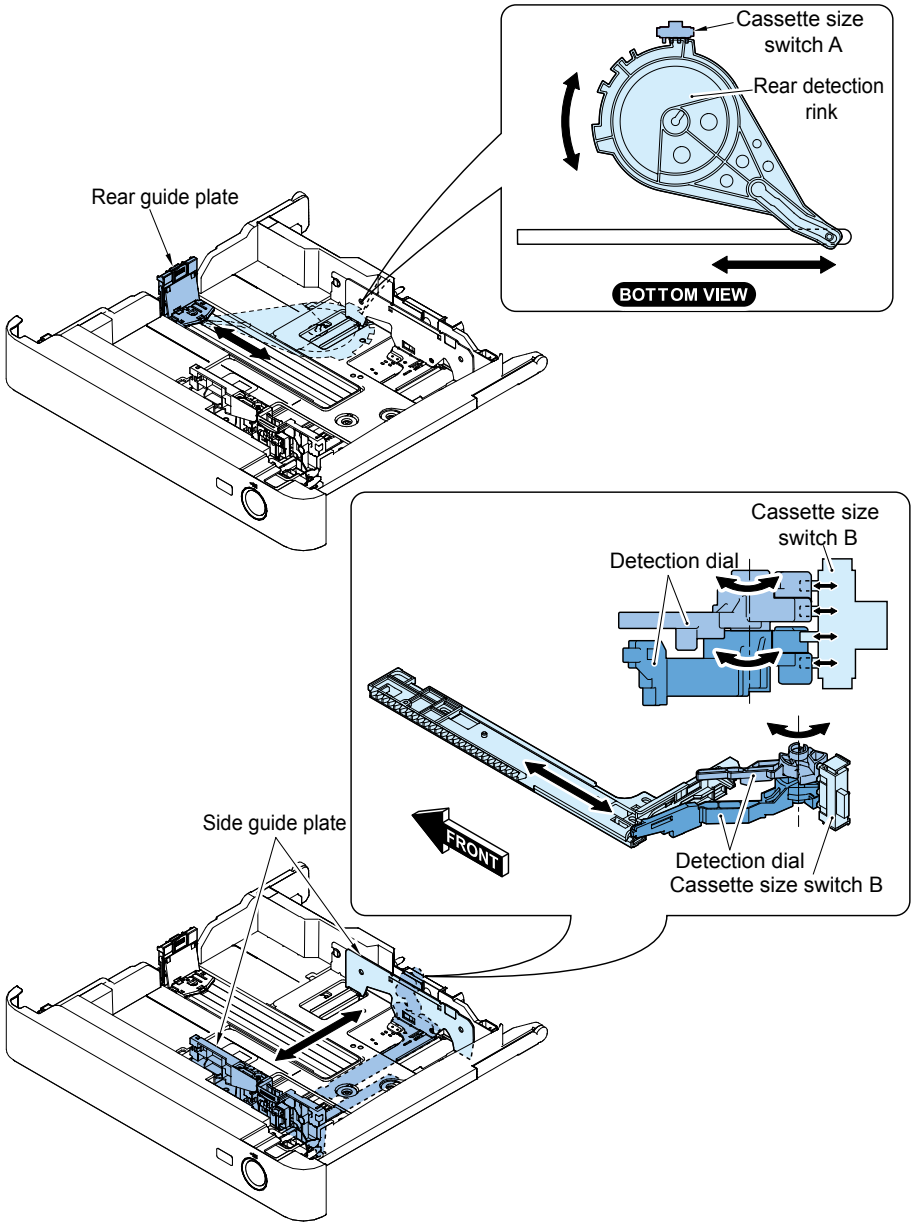
F-3-4

Paper Size Detection

At the cassette pickup assembly, since the feed speed is increased, detection cannot catch up with it. Thus, delay and stationary jam detection are not executed at the Cassette 1 Pre-Registration Sensor. Instead of it, the Vertical Path Sensor executes the delay and stationary jam detection. Since the residual jam should be detected on each cassette, the Cassette 1 Pre-Registration Sensor detects it. Because the Vertical Path Sensor is too close and it is unnecessary to execute detection, the Vertical Path Sensor does not execute residual jam detection.



F-3-5



F-3-6

			Width detection				Length detection			
	Width	Length	1	2	3	4	1	2	3	4
B5	257.0	182.0	0	ON	ON	0	0	0	0	0
EXEC	267.0	184.0	0	ON	ON	0	0	0	0	0
16K	270.0	195.0	0	ON	ON	0	ON	0	0	0
A5-R	148.5	210.0	ON	0	ON	0	ON	ON	0	0
A4	297.0	210.0	0	ON	0	0	ON	ON	0	0
STMT-R	139.7	215.9	ON	0	ON	0	ON	ON	0	0
LTR	279.4	215.9	0	ON	ON	0	ON	ON	0	0
B5-R	182.0	257.0	ON	0	ON	0	0	ON	ON	ON
LTR-R	215.9	279.4	0	0	ON	0	ON	0	0	ON
A4-R	210.0	297.0	0	0	ON	0	0	ON	ON	0
LGL	215.9	355.6	0	0	ON	0	ON	ON	0	ON
B4	257.0	364.0	0	ON	ON	0	ON	ON	ON	0
8K	270.0	390.0	0	ON	ON	0	ON	ON	ON	ON
A3	297.0	420.0	0	ON	0	0	0	0	ON	ON
LDR	279.4	431.8	0	ON	ON	0	0	0	ON	ON
12x18	304.8	457.2	0	ON	0	0	0	0	0	ON

T-3-1

Also, the cassette presence is detected when the size switch is pushed. (If no switch is pushed, it is determined as no cassette.))

Setting method when the size detection patterns are overlapped

Size should be found manually on the check screen for the combination of A5-Rand STMT-R or the combination of B5-R and EXEC.
Specify the ecognition method for the special paper with user setting.
The setting size is indicated below.

Related Service Mode

COPIER> OPTION> CST> CSTX-UY> Nomber

X shows Cassette Number. Y shows size category. (X, Y is one of the number 1/2/3/4.)

No.	Size
U1	OFI, E-OFI, M-OFI, A-OFI, FLSP, A-FLSP, A-LTRR, FA4, G-LGL
U2	G-LTR-R, K-LGL-R
U3	K-LGL, G-LTR, A-LTR
U4	B-OFI

T-3-2

No.	Size
22	K-LGL
23	K-LGLR
24	FLSC
25	A-FLS
27	E-OFI
28	B-OFI
29	A-LTR
30	A-LTRR
31	G-LTR
32	G-LTRR
33	A-LGL
34	G-LGL
36	A-OFI
37	M-OFI
42	FA4

T-3-3

Sample: When setting A_LTR in the Cassette 3,

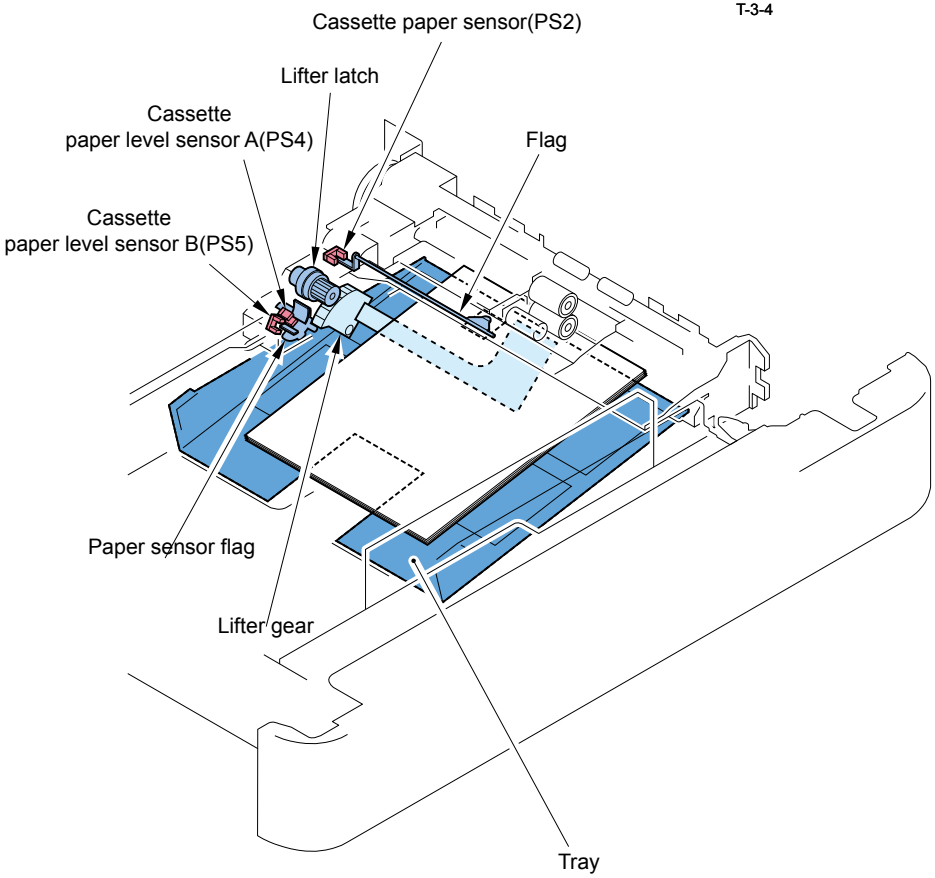
COPIER> OPTION> CST> CST3-U3>29

Paper level sensor

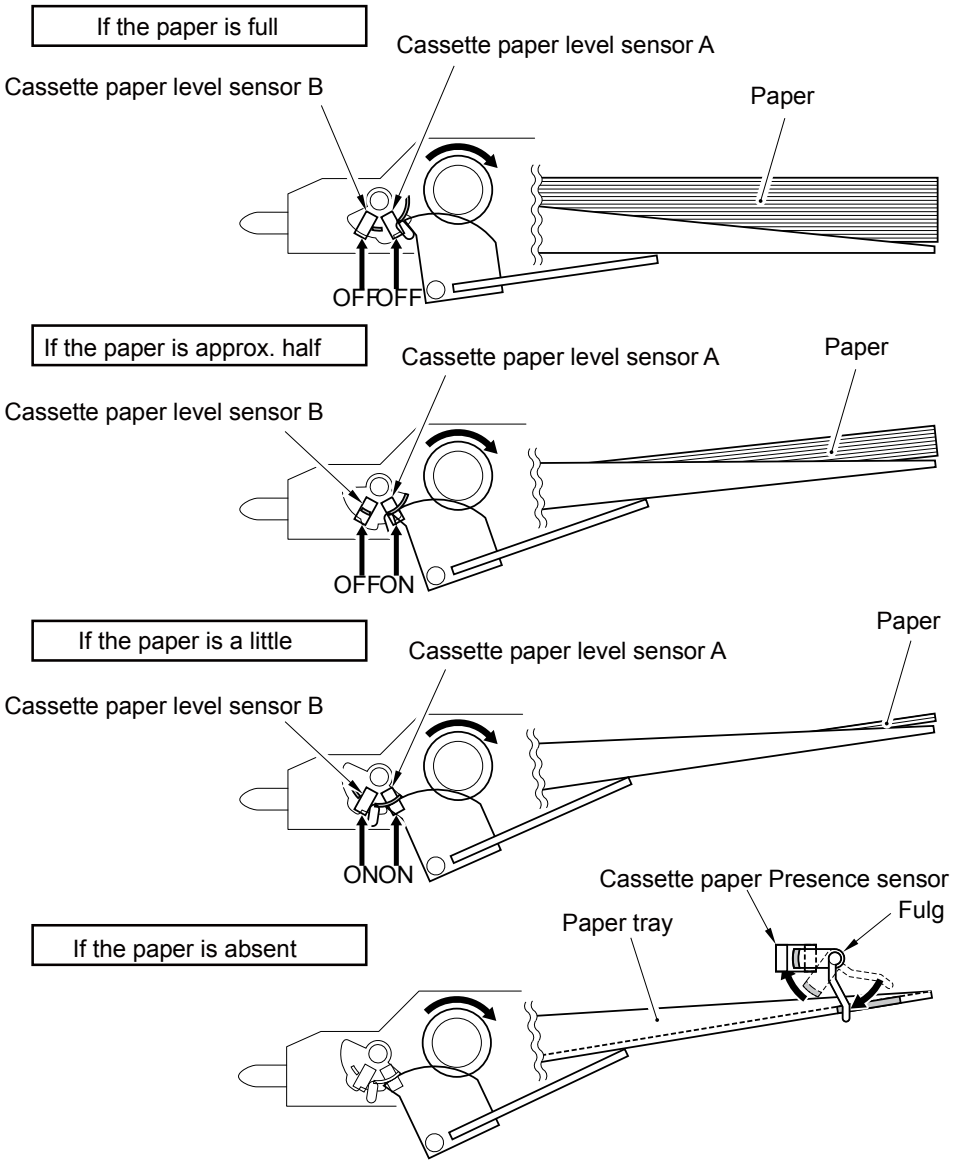
Paper level in a cassette is detected with the sensor indicated below.

	Cassette 3	Cassette 4
Cassette paper level sensor A	PS4	PS6
Cassette paper level sensor B	PS5	PS7
Cassette paper sensor	PS2	PS3

T-3-4



F-3-7



F-3-8

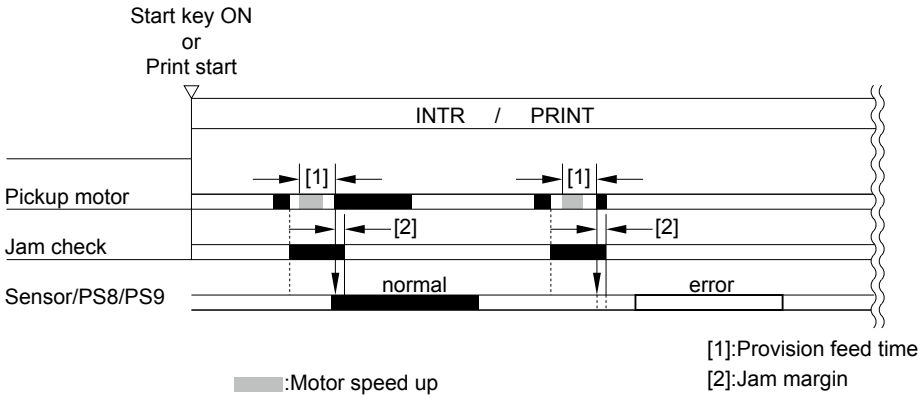
Paper level sensor A	Paper level sensor B	Paperl sensor	Paper level	Display
OFF	OFF	OFF	100% to 50%	
ON	OFF	OFF	50% to 50 sheets	
ON	ON	OFF	50 sheet or less	
---	---	ON	no paper	

F-3-12 T-3-5

JAM Detection

Delay JAM

In case that the leading edge of paper does not reach to the sensor within the specified time after the speed of Cassette 3 and 4 Pickup Motor decreases to half.



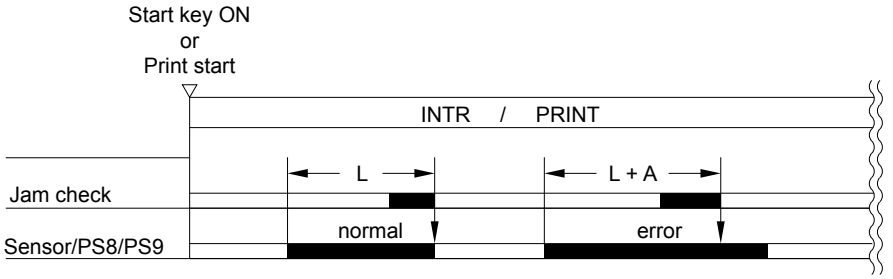
F-3-13

Cassette	Motor	Sensor
Cassette 3	Cassette 3 pickup motor (M1)	Cassette 3 retry sensor (PS8)
Cassette 4	Cassette 4 pickup motor (M2)	Cassette 4 retry sensor (PS9)

T-3-6

Stationary JAM

In case that the corresponding sensor is not turned ON within the specified time after it is turned ON.



(L = Paper length feed range A = Provision feed range)

F-3-14

Sensor
Cassette 3 retry sensor (PS8)
Cassette 4 retry sensor (PS9)

T-3-7

Power ON JAM

Before starting the warm-up rotation at power ON, check that no paper is at the sensor indicated below.

Sensor
Cassette 3 retry sensor (PS8)
Cassette 4 retry sensor (PS9)

T-3-8

Door open JAM

When it is detected that the door is opened during copy and printing.

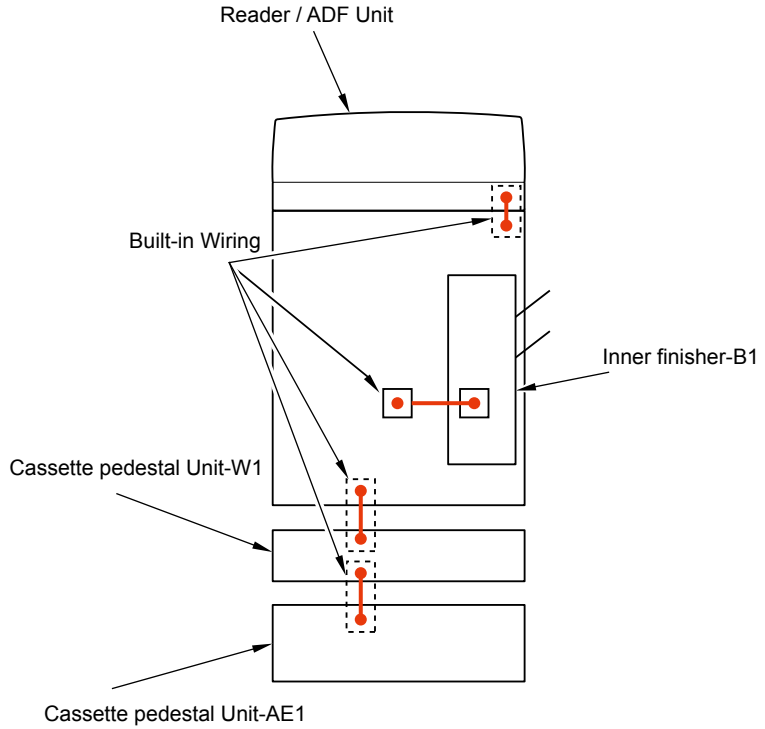
Sensor
Pedestal right cover sensor(PS1)

T-3-9

Power supply

Power connection with each option

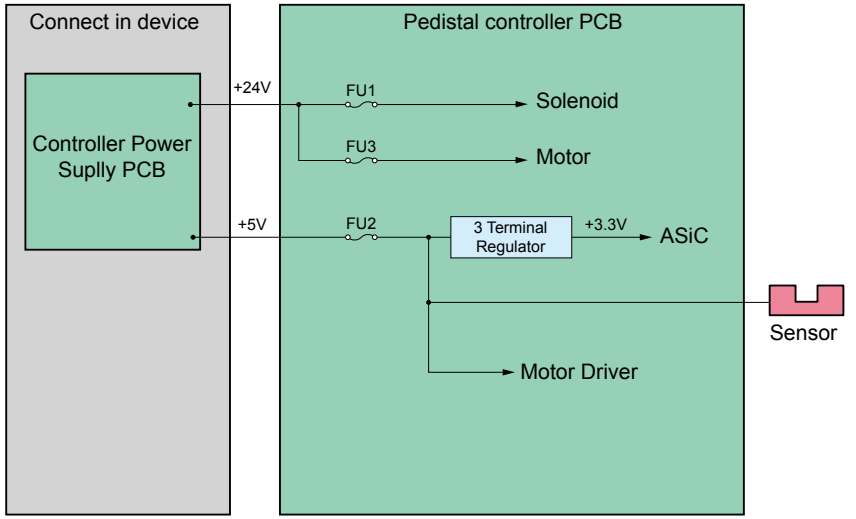
Indicating the power supply path between the Printer and Option.



Connector inside the cover is used for the connection with the printer.

F-3-15

When power is turned ON, the connected equipment supplies 24VDC and 5VDC to the Pedestal Controller PCB.
25VDC generates 3.3VDC in 3-Terminal Regulator in the Pedestal Control PCB, 5VDC is used for sensors and IC driver and the 3.3VDC is used for the Control IC (Asic)



F-3-16

4

Parts Replacement Procedure

- Remove from the host machine
- Removing the Cassette Feed Roller
- Removing the Separation Roller
- Removing the Pickup Roller
- Removing the Pickup Assembly Idler Gear
- Removing the Cassette 3 Pickup Unit
- Removing the Cassette Size Detection Unit
- Removing the Pickup Motor
- Removing the Pedestal Controll PCB
- Removing the Cassette Right Lower Cover

Parts Replacement

Remove from the host machine

Before removing the host machine

- Remove the Connecter Cover

<In the Case of Host Machine>

F-4-1

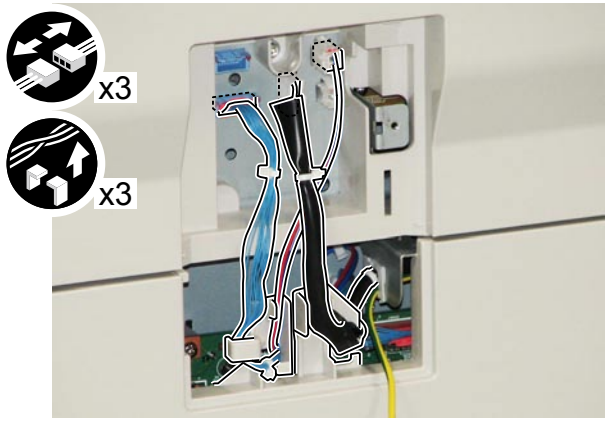
<In the Case of 1-Cassette Unit>

F-4-2

How to remove

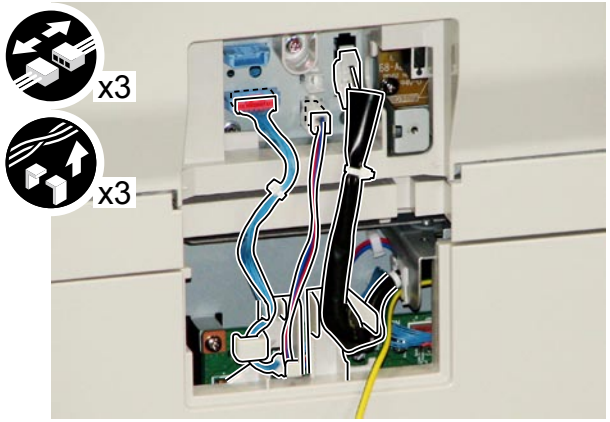
1) Remove the 3 harness from the guides

<When Connecting to 550 Sheets Cassette Model>



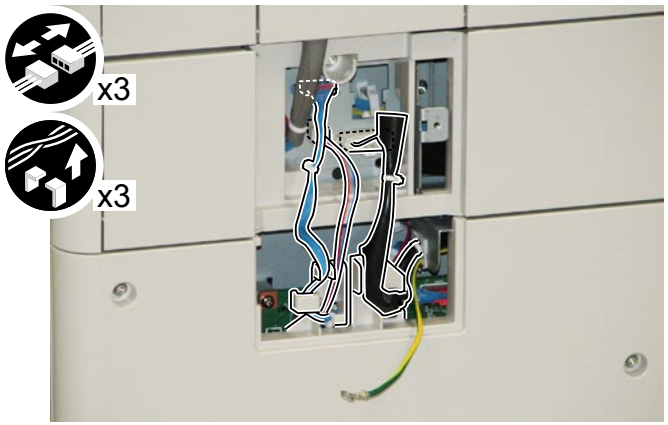
F-4-3

<When Connecting to 250 Sheets Cassette Model>



F-4-4

<When Connecting to 1- Cassette Unit>



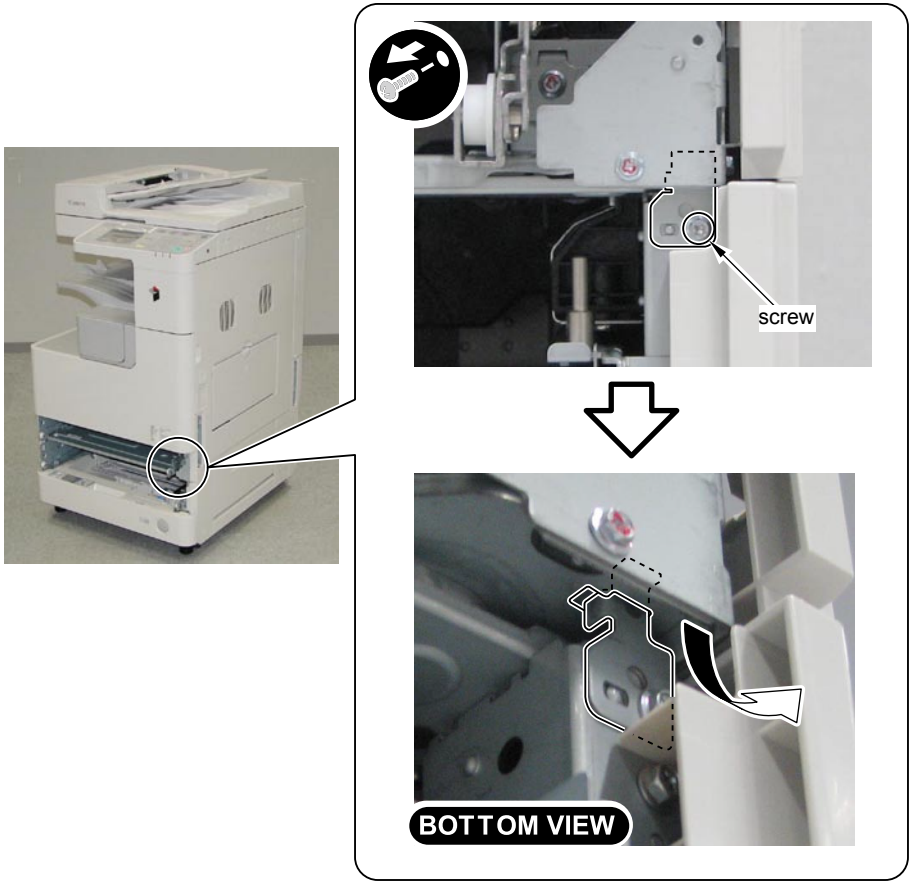
F-4-5

2)Remove the Cassette

3)Remove the Connecting Fixture

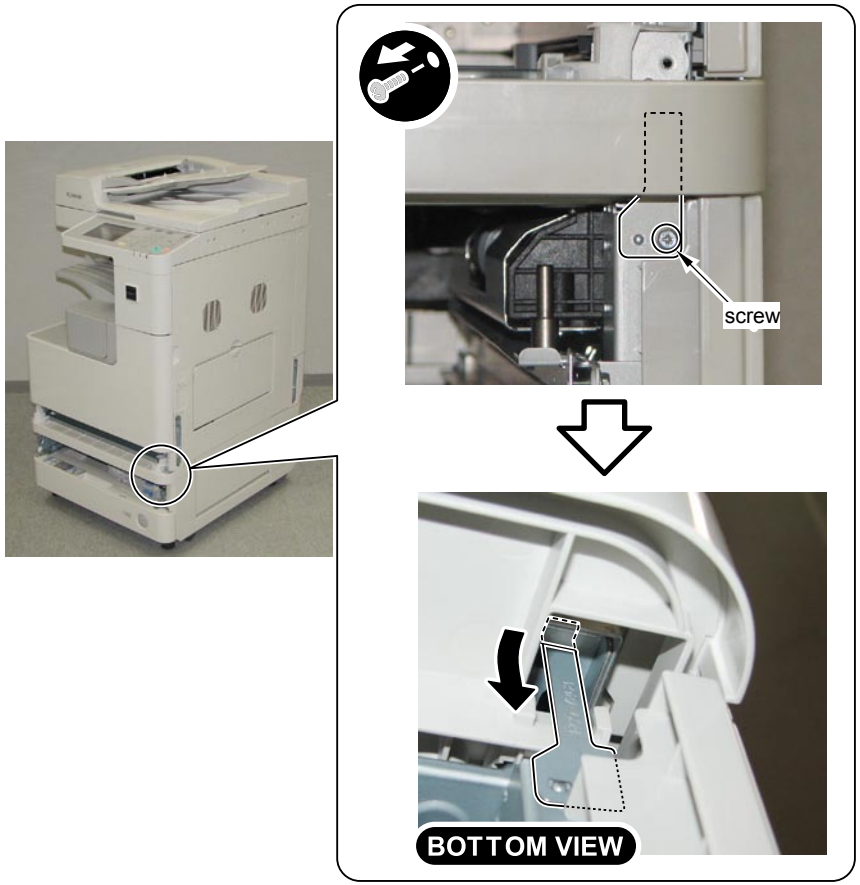
- 1-screw

< When Connecting to 550 Sheets Cassette Mode>



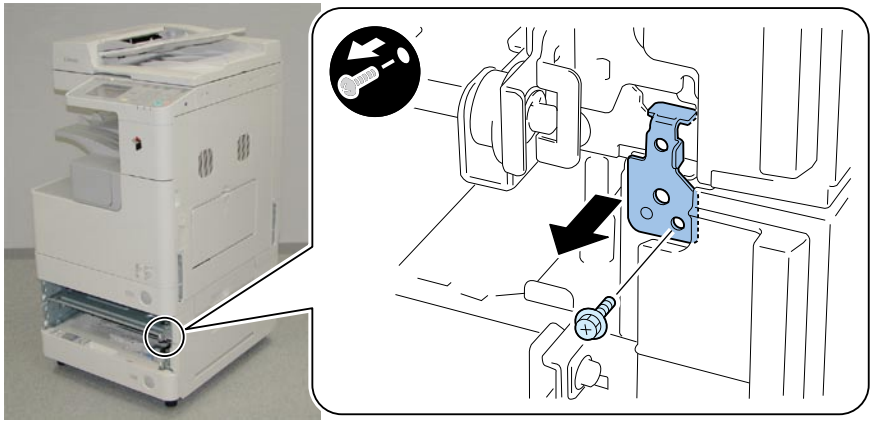
F-4-6

< When Connecting to 250 Sheets Cassette Mode>



F-4-7

< When Connecting to 1-Cassette Unit>

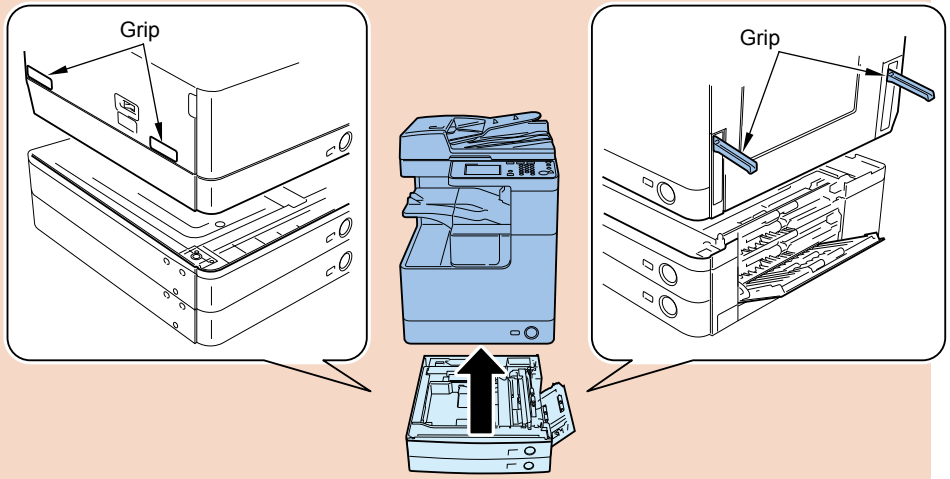


4) Lift and remove the host machine

F-4-8

CAUTION:

- The host machine weighs maximum approx. 50 to 79 kg.It is recommended to lift it with 2 people or more. However, if there is a standard to handle a heavy load in each sales company, follow it for operation.Also, make sure to lift the machine with keeping it level at operation.



5) Install the cassette 3 and cassette 4

Removing the Cassette Feed Roller

Before removing the Cassette Feed Roller

- Remove the Cassette

MEMO:
This procedure describes the removing steps of cassette 1 Feed Roller. Go through the same procedure for the Feed Roller of cassette 3 and cassette 4.

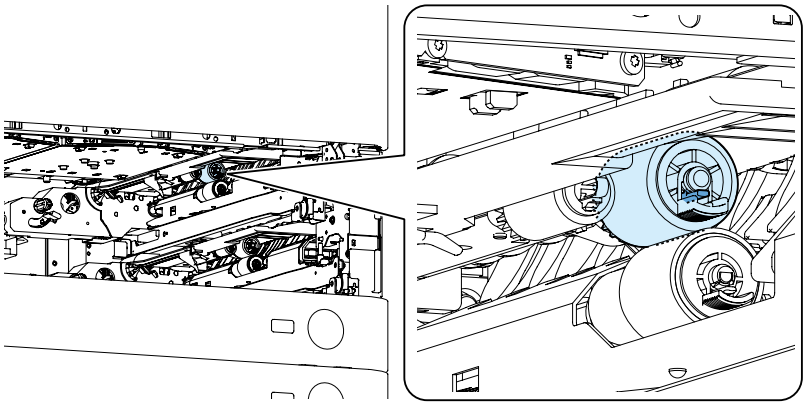
Note:

Do not touch the surface of Pickup Roller, Feed Roller and the Separation Roller.

How to remove

1) Remove the Cassette Feed Roller.

- 1 tab



F-4-9

Removing the Separation Roller

Before removing the Separation Roller

- Remove the Cassette

How to remove

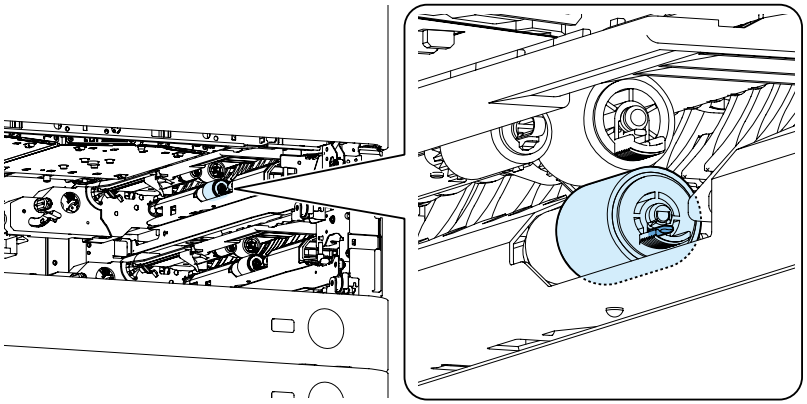
MEMO:
This procedure describes the removing steps of cassette 1 Separetion Roller. Go through the same procedure for the Separetion Roller of cassette 3 and cassette 4.

Note:

Do not touch the surface of Pickup Roller, Feed Roller and the Separation Roller.

1) Removing the Separation Roller

- 1 tab



F-4-10

Removing the Pickup Roller

Before removing the Cassette Pickup Roller

- Remove the Cassette

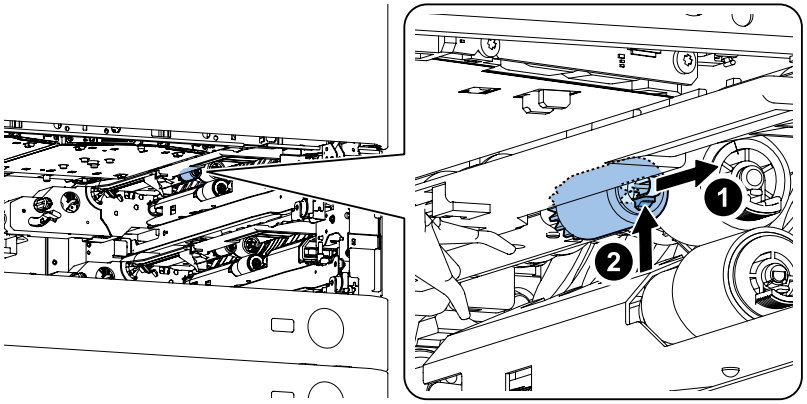
How to remove

MEMO:
This procedure describes the removing steps of cassette 1 Pickup Roller. Go through the same procedure for the Pickup Roller of cassette 3 and cassette 4.

Note:
Do not touch the surface of Pickup Roller, Feed Roller and the Separation Roller.

1) Removing the Pickup Roller

- 1 pin
- 1 tab



F-4-11

Removing the Pickup Assembly Idler Gear

Before removing the Pickup Assembly Idler Gear

- Remove the Cassette
- Remove the Pickup Roller
- Remove the Feed Roller

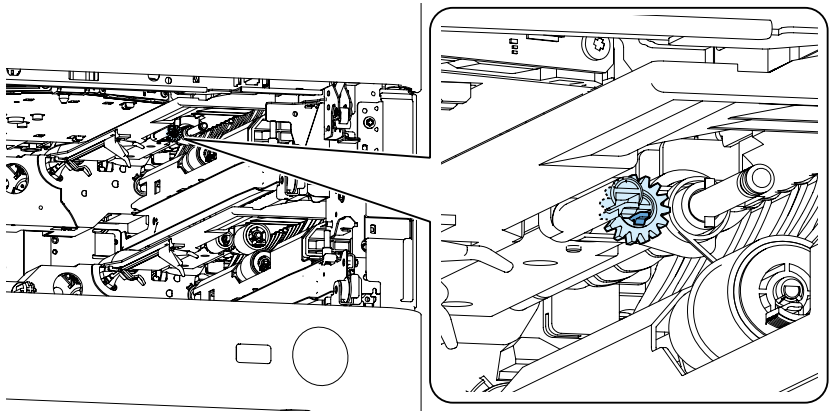
How to remove

MEMO:
This procedure describes the removing procedure of cassette 1 Pickup Assembly Idler Gear. Go through the same procedure for the Pickup Assembly Idler Gear of cassette 3 and cassette 4.

Note:
Do not touch the surface of Pickup Roller, Feed Roller and the Separation Roller.

1) Remove the Pickup Assembly Idler Gear.

- 1 tab

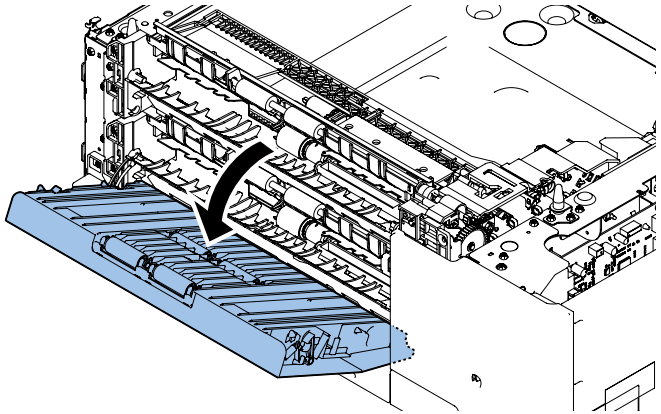


F-4-12

Removing the Cassette 3 Pickup Unit

Before removing the Cassette 3 Pickup Unit

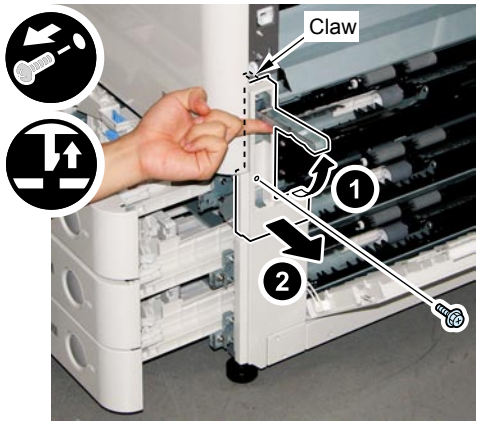
1) Open the Cassette Right Lower Cover of the Cassette Feeding Unit.



2) Pull out cassette.

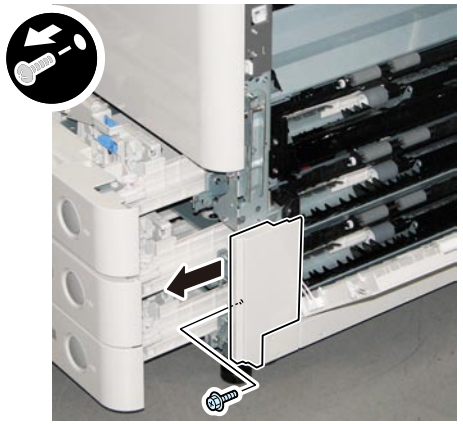
3)Remove the Right Front Cover of the Host Machine.

- Remove the claw with a flat-blade screwdriver and remove the Right Front Cover.
  - 1 screw
  - 1 claw



4) Remove the Right Front Cover of the Cassette Feeding Unit.

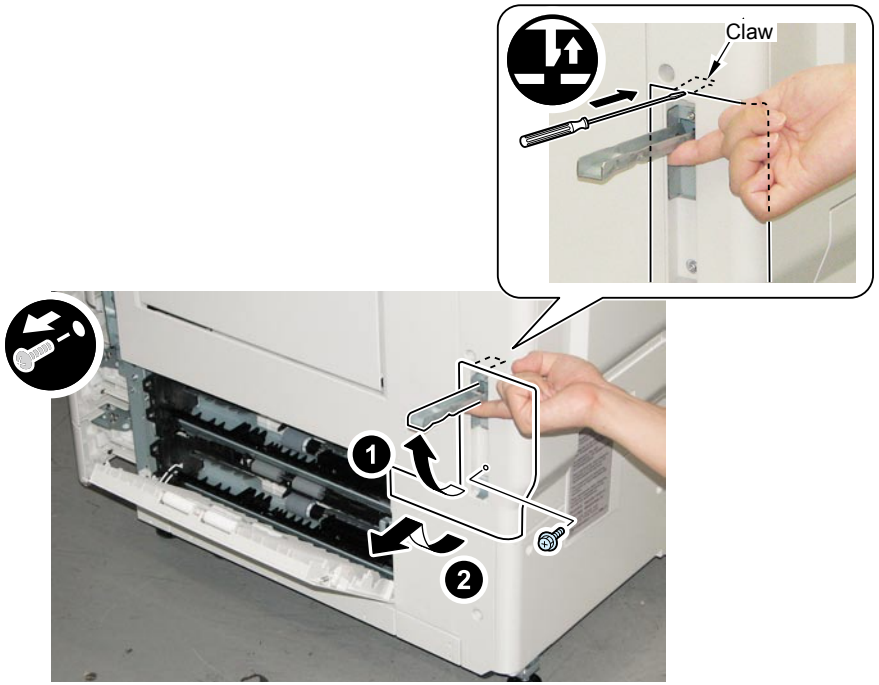
- 1 screw



F-4-13

5)Remove the Right Rear Cover of the Host Machine.

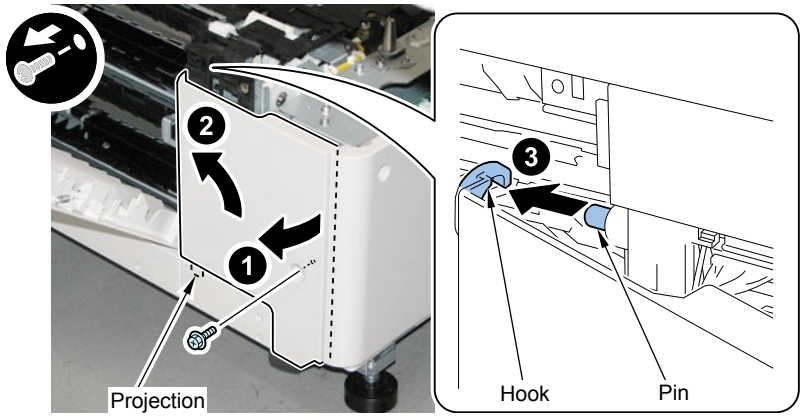
- Remove the claw with a flat-blade screwdriver and remove the Right Rear Cover.
  - 1 screw



F-4-14

6) Remove the Right Rear Cover of the 2-Cassette Unit.

- 1 screw

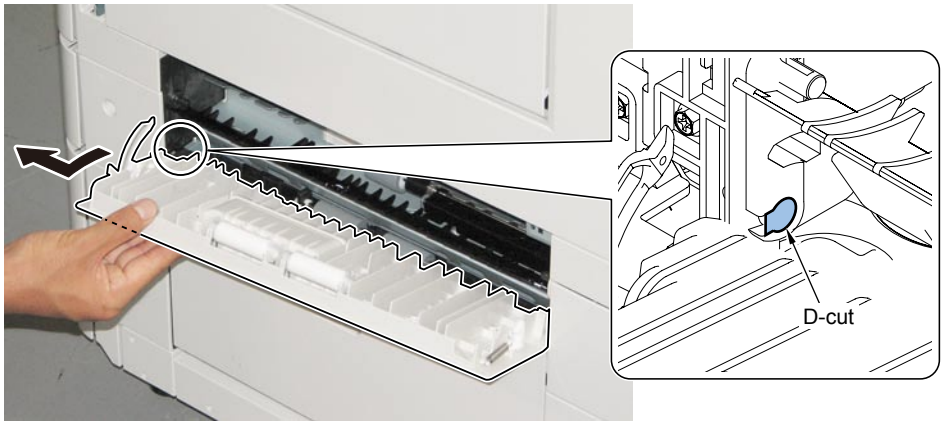


F-4-15

When Connecting to 1-Cassette Unit

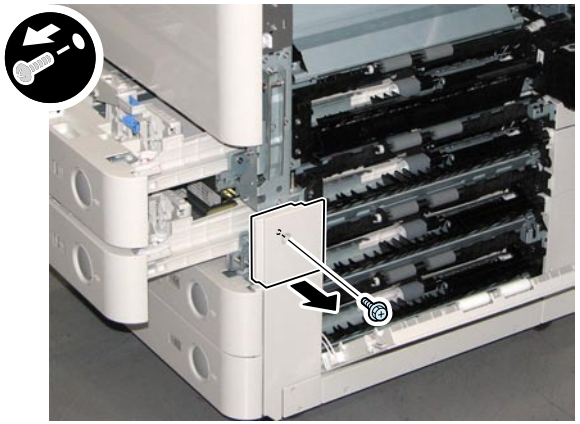
MEMO :
When Connecting to 1-Cassette Unit, be sure to remove the Cassette Right Lower Cover.

1) Remove the Cassette Right Lower Cover of the 1-Cassette Unit.



2) Remove the Right Front Cover of the Host Machine and remove Right Front Cover of the 1-Cassette Unit

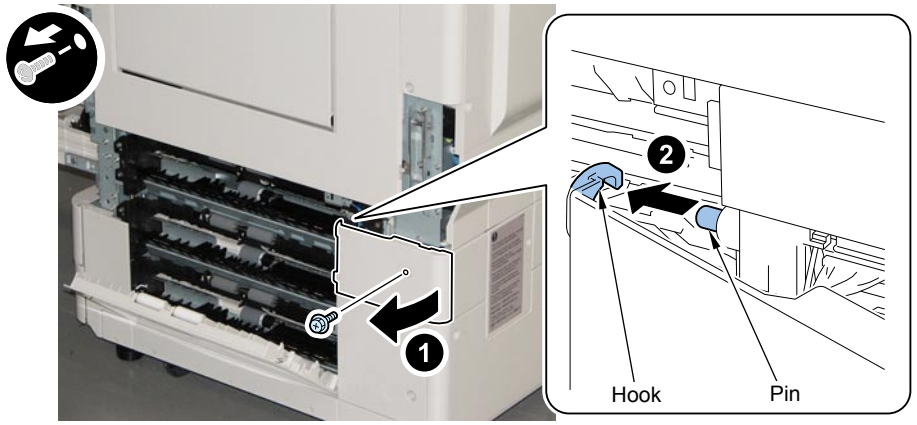
- 1 screw



F-4-16

3) Remove the Right Rear Cover of the Host Machine and remove Right Rear Cover of the 1-Cassette Unit

- Remove the Right Front Cover
  - 1 screw



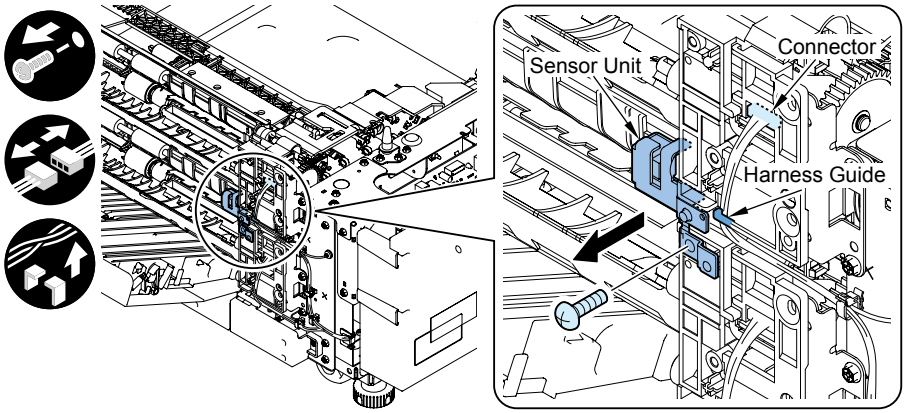
F-4-17

How to remove

MEMO:
This procedure describes the removing procedure of Cassette 3 Pickup Assembly. Go through the same procedure for the Cassette 4 Pickup Assembly.

1) Remove the Sensor Unit.

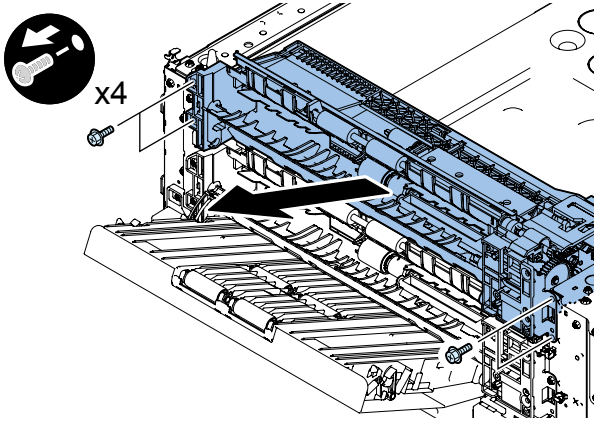
- 1 screw
- 1 connector
- 1 harness guide



F-4-18

2)Remove the cassette 3 Pickup Unit

- 4 screws



F-4-19

Removing the Cassette Size Detection Unit

Before removing the Cassette Size Detection Unit

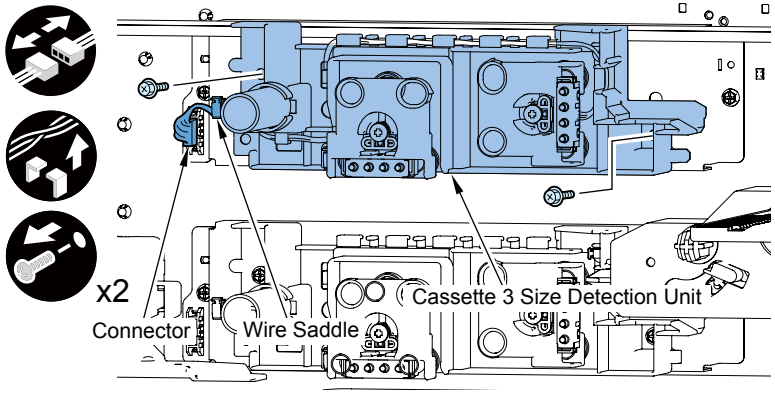
- Remove the Right Front Cover
- Remove the Right Rear Cover
- Remove the Cassette Pickup Unit

How to remove

MEMO:
This procedure describes the removing steps of Cassette 3 Size Detection Unit. Go through the same procedure for Cassette 4 Size Detection Unit.

1) Remove the Cassette 3 Size Detection Unit

- 1 connector
- 1 wire saddle
- 2 screws

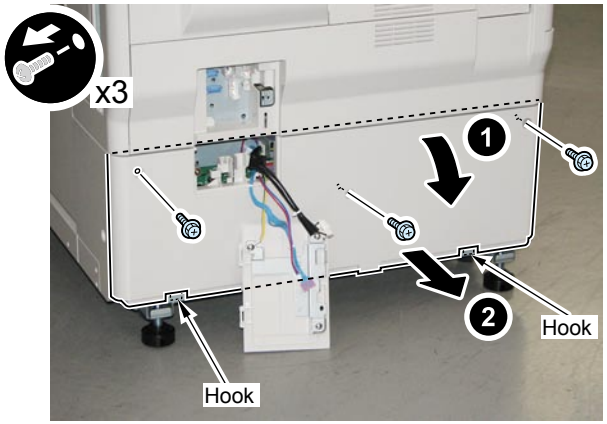


F-4-20

Removing the Pickup Motor

Before removing the Pickup Motor

- Remove the Connector Cover
- Remove 5 connectors
- Remove Rear Cover
  - 4 screws
  - 2 hooks



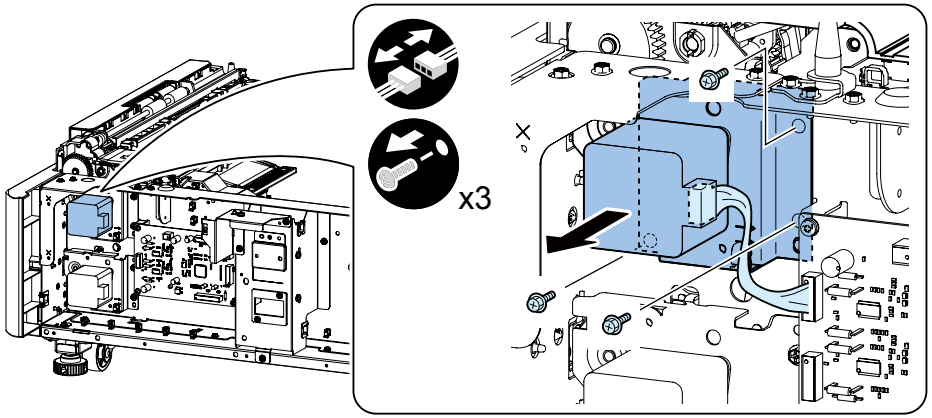
F-4-21

How to remove

MEMO:
This procedure describes the removing step of cassette 3 Pickup motor. Go through the same procedure for the Pickup motor of cassette 4.

1) Remove the upper pickup motor.

- 1 connector
- 3 screws



F-4-22

Removing the Pedestal Controll PCB

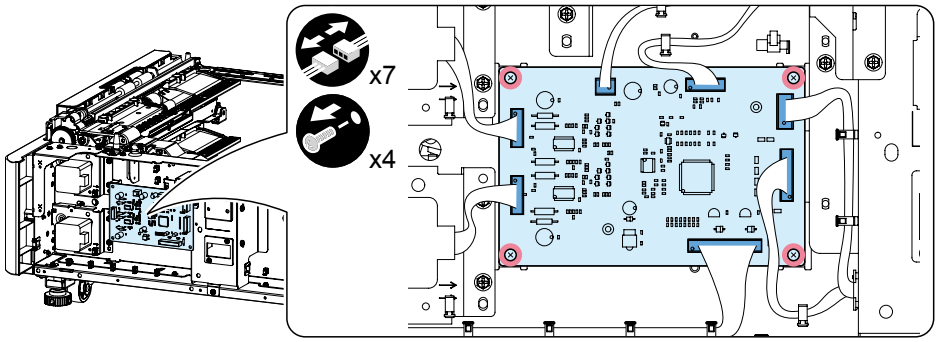
Before removing the Pedestal Controll PCB

- remove the Connector Cover
- Remove the 5 connectors
- Remove the Rear Cover

How to remove

1) Remove the Pedestal Controll PCB

- 7 connectors
- 4 screws



F-4-23

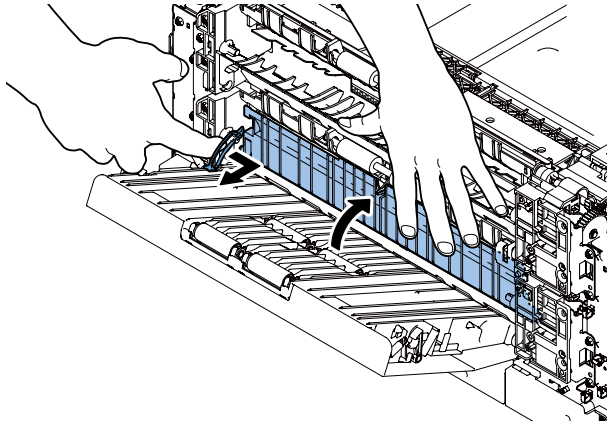
Removing the Cassette Right Lower Cover

Before removing the Cassette Right Lower Cover

- Open the cassette right lower cover

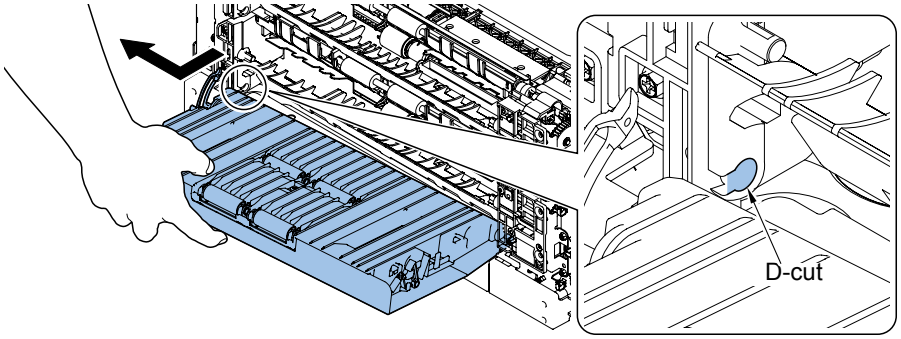
How to remove

1) Lift up lower guide and remove the arm



F-4-24

2) Fit the D-cut and remove the cassette right lower cover



F-4-25

5

Maintenance

- Periodical maintenance
- Adjustment
- Parts Configuration / Role

Maintenance

Periodical maintenance

Periodically replacement parts

N / A

Consumables

Parts Name	Parts Number	Num	Interval	Remarks
Pickup roller	FB6-3405	1	120k	
Feeding roller	FC6-7083	1	120k	
Separation roller	FC6-6661	1	120k	
Pickup idler gear	FU3-0280	1	120k	For China only Flying Paper

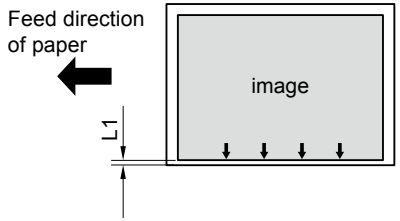
T-5-1

Adjustment

Margin Adjustment

First side; Mechanical Adjsutment

1) Make copies using the Cassette 3 and 4, and check that the left edge margin is 2.5±1.5mm.

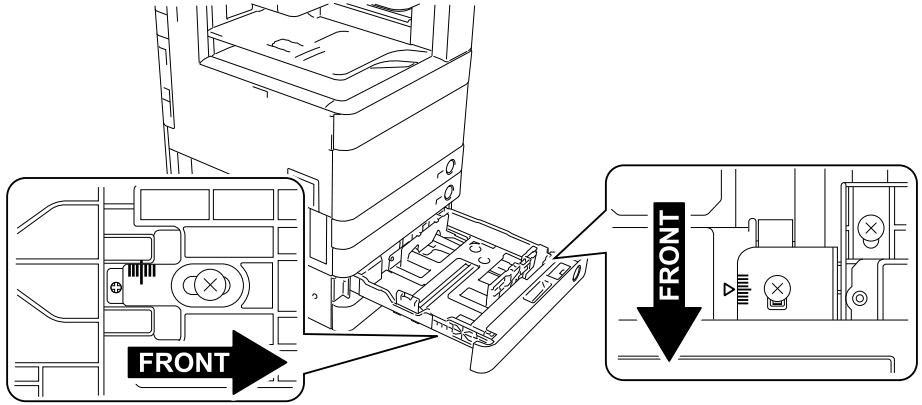


F-5-1

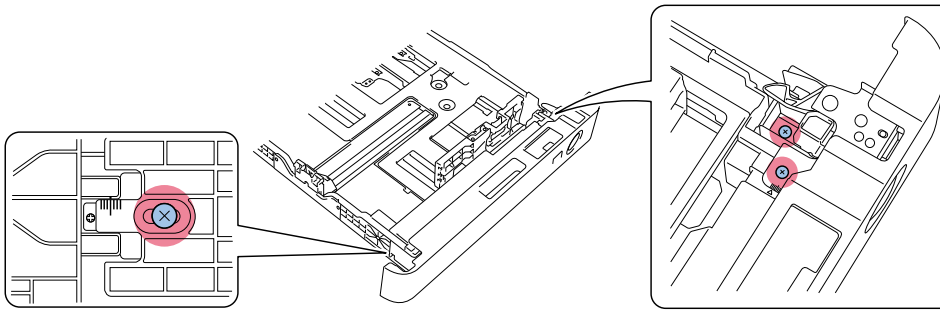
MEMO:
Adjsutment method is same for both the Cassette 3 and 4.

2) Pull out the cassette.

3) Check the 2 scale positions on the adjusting plates.

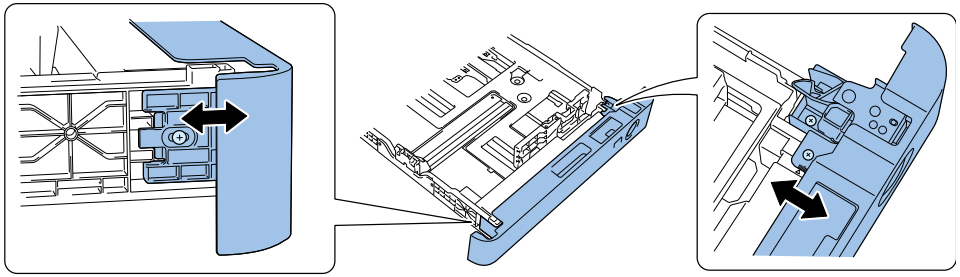


4) Loosen the 3 fixing screws.



5) Move the adjusting plates back and forth by referring the scale checked in the step 2. As moving the adjusting plate toward the rear by 1 scale, the left edge margin becomes 1mm smaller.

MEMO:
When moving the scale, be sure that the amount of the value to be moved are the same for the 2 points.

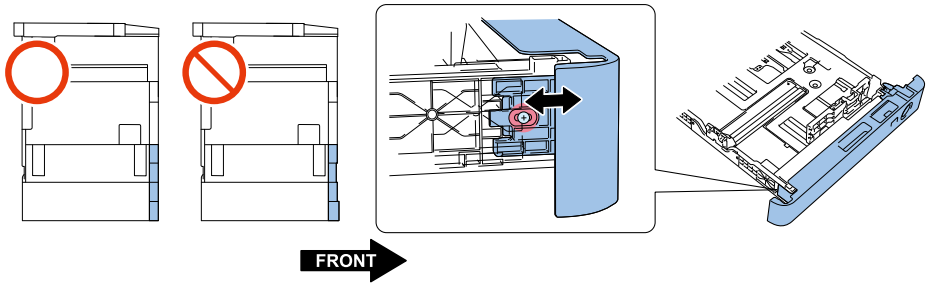


F-5-2

6) Tighten the fixing screw.

7) Return the cassette to its original position.

MEMO:
When the cassette positions are uneven due to the mechanical adjustment, adjust them by loosening the screw at left side.



F-5-3

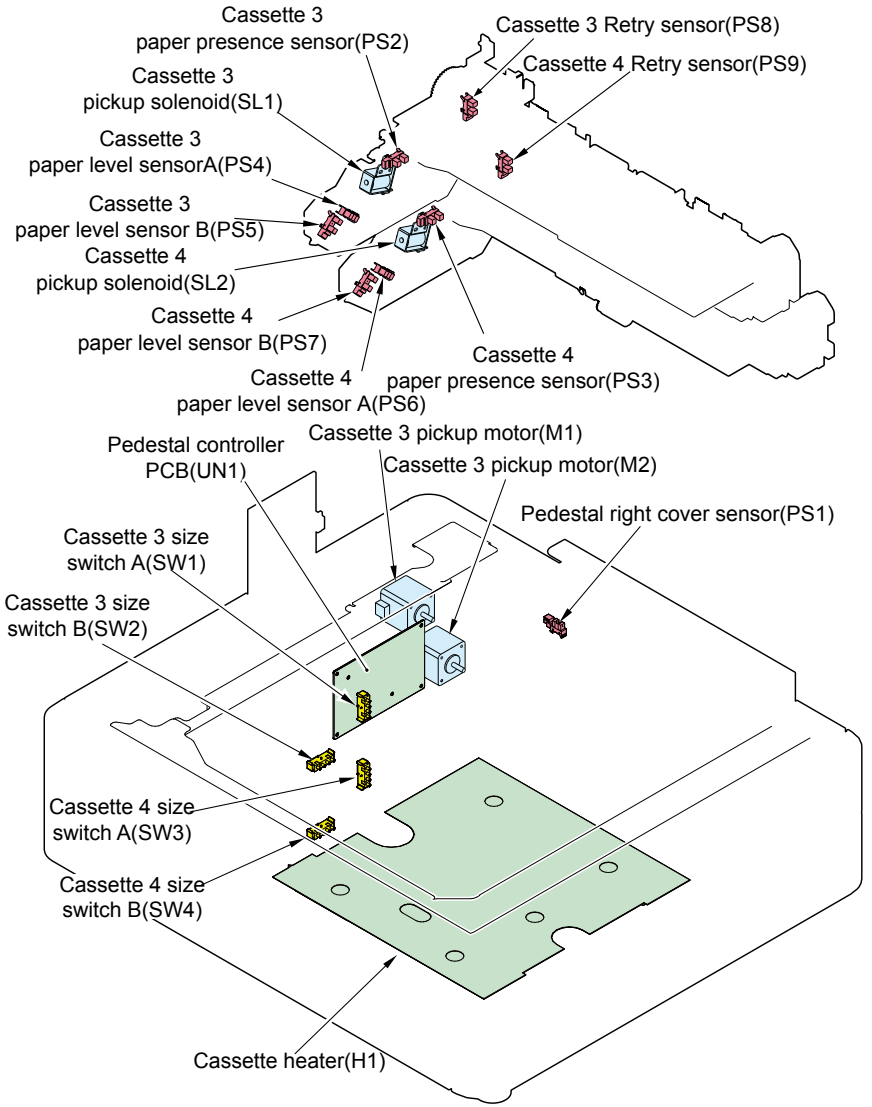
8) Make copies using the Cassette 3 and 4, and check that the left edge margin is 2.5±1.5mm.

Parts Configuration / Role

■ Parts Configuration / Role

Mark	Name	Part No.	Role	FUNCTION >PART-CHK	Pedestal controller PCB
M1	Cassette 3 pickup motor	FK2-7327	Drive the pickup unit 3		J3006
M2	Cassette 4 pickup motor	FK2-7327	Drive the pickup unit 4		J3007
PS4	Cassette 3 paper level sensor A	FK2-0149	Detects the cassette 3 paper level		J3003
PS5	Cassette 3 paper level sensor B	FK2-0149	Detects the cassette 3 paper level		J3003
PS8	Cassette 3 retry sensor	FK2-0149	Cassette 3 Retry Detection		J3003
PS2	Cassette 3 paper sensor	FK2-0149	Detects whether paper is loaded in the cassette 3		J3003
PS6	Cassette 4 paper level sensor A	FK2-0149	Detects the cassette 4 paper level		J3004
PS7	Cassette 4 paper level sensor B	FK2-0149	Detects the cassette 4 paper level		J3004
PS9	Cassette 4 retry sensor	FK2-0149	Cassette 4 Retry Detection		J3004
PS3	Cassette 4 paper sensor	FK2-0149	Detects whether paper is loaded in the cassette 4		J3004
PS1	Pedestal right cover sensor	FH7-7312	Detects the right cover open		J3003
SL1	Cassette 3 pickup solenoid	FK2-0408	controll the cassette 3 pickup timing		J3003
SL2	Cassette 4 pickup solenoid	FK2-0408	controll the cassette 4 pickup timing		J3004
SW1	Cassette 3 size switch A	WC2-5680	Detects the cassette 3 paper size		J3003
SW2	Cassette 3 size switch B	WC2-5680	Detects the cassette 3 paper size		J3003
SW3	Cassette 4 size switch A	WC2-5680	Detects the cassette 4 paper size		J3004
SW4	Cassette 4 size switch B	WC2-5680	Detects the cassette 4 paper size		J3004
H1	Cassette heater	FH7-4742			
UN1	Pedestal controller PCB	FH4-2531	Controll the cassette pedestal		

T-5-2


Cassette 3 paper presence sensor(PS2)
Cassette 3 Retry sensor(PS8)
Cassette 4 Retry sensor(PS9)
Cassette 3 pickup solenoid(SL1)
Cassette 3 paper level sensorA(PS4)
Cassette 3 paper level sensor B(PS5)
Cassette 4 pickup solenoid(SL2)
Cassette 4 paper level sensor B(PS7)
Cassette 4 paper level sensor A(PS6)
Cassette 4 paper presence sensor(PS3)
Pedestal controller PCB(UN1)
Cassette 3 pickup motor(M1)
Cassette 3 pickup motor(M2)
Pedestal right cover sensor(PS1)
Cassette 3 size switch A(SW1)
Cassette 3 size switch B(SW2)
Cassette 4 size switch A(SW3)
Cassette 4 size switch B(SW4)
Cassette heater(H1)

F-5-4

6

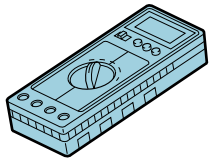
Appendix

- Service Tools
- General Circuit Diagram (1/3)
- General Circuit Diagram(2/3)
- General Circuit Diagram(3/3)

Service Tools

Special Tools

In addition to the standard tools set, the following special tools are required when servicing the machine:

Tool name	Tool No.	Ctgr	Appearance	Remarks
Digital multimeter	FY9-2002	A		Used as a probe extension when making electrical checks.

T-6-1

Reference: Category

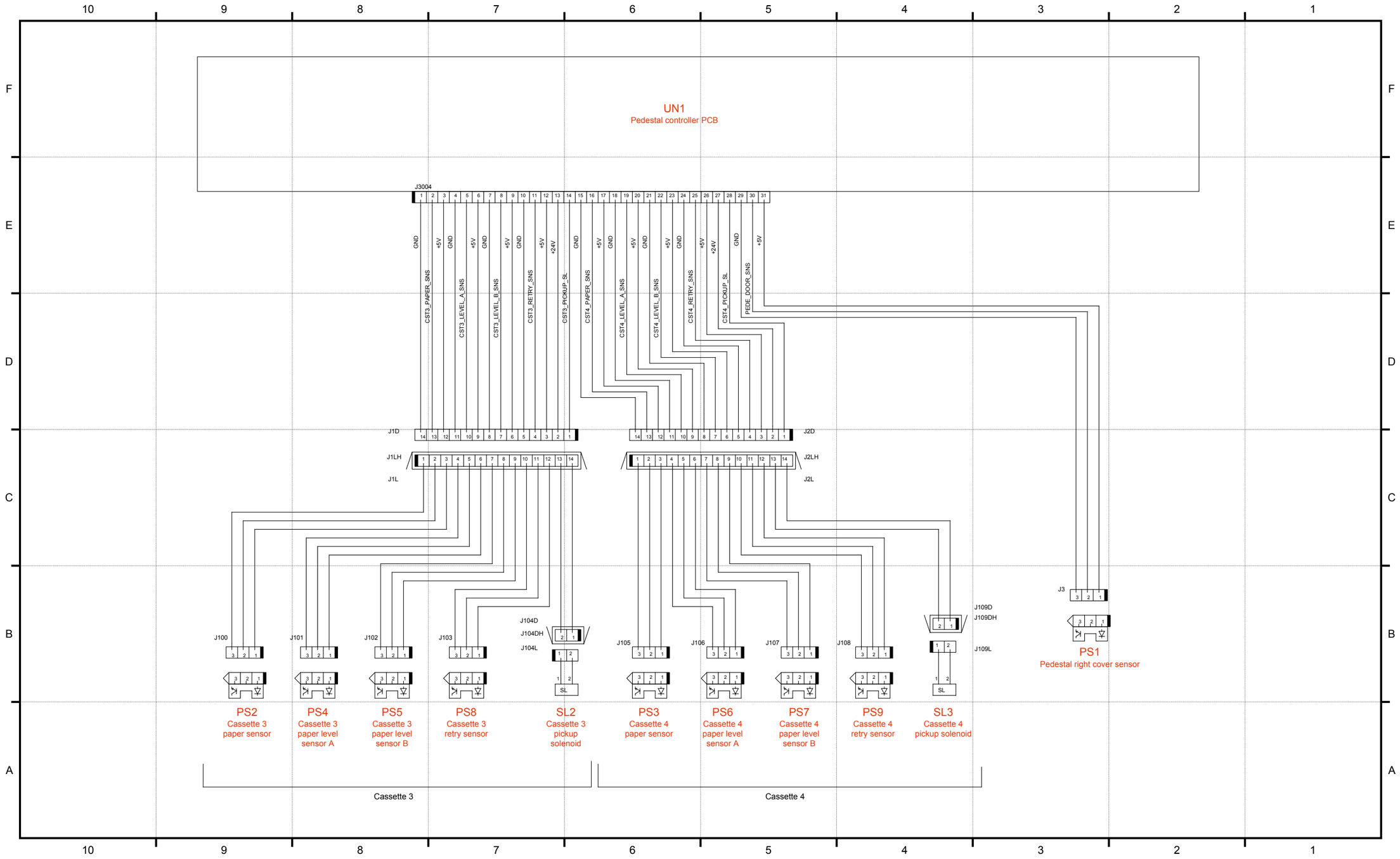
A: Must be kept by each service engineer.

B: Must be kept by each group of about five engineers.

C: Must be kept by each warkshop

General Circuit Diagram (1/3)

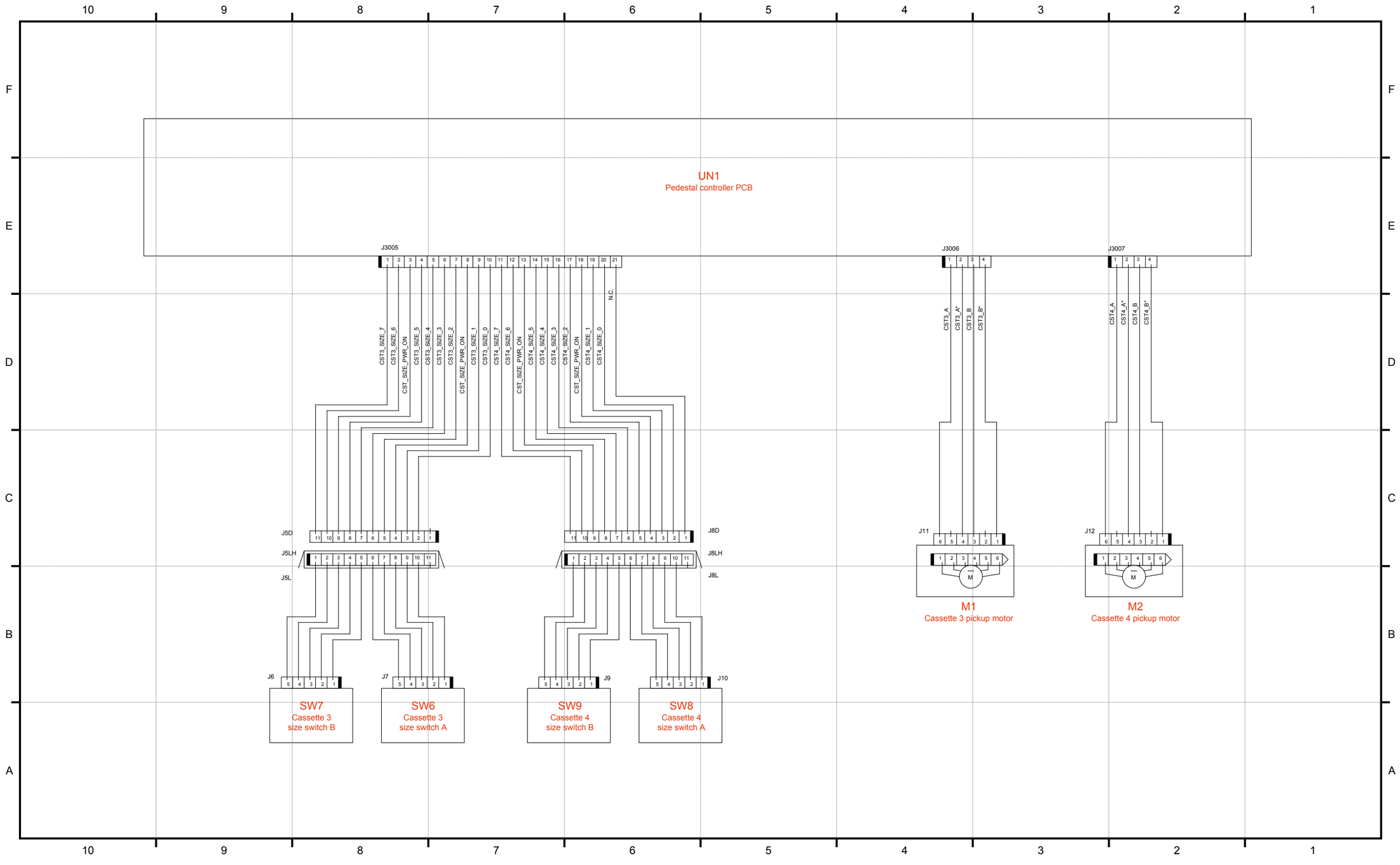
Appendix > Service Tools > General Circuit Diagram (1/3)



P.1

F-6-1

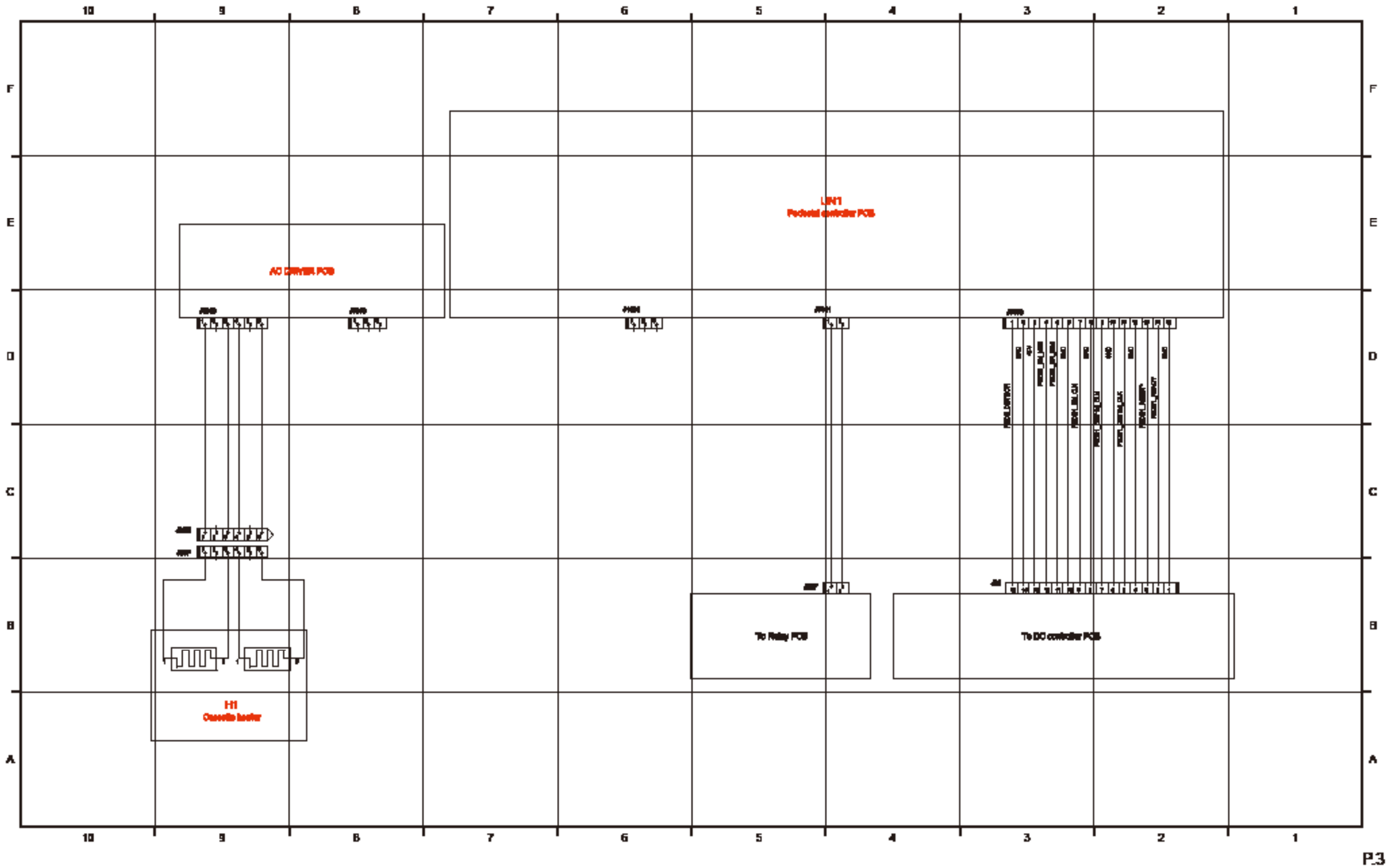
General Circuit Diagram(2/3)



F-6-2

Appendix > Service Tools > General Circuit Diagram(2/3)

General Circuit Diagram(3/3)



F-6-3

Appendix > Service Tools > General Circuit Diagram(3/3)